

Manufacturers Record

Reg. U. S. Pat. Office

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development
of the South and Southwest as the Nation's Greatest Material Asset

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Wide-Sweeping Development and Construction Work Under Way Throughout South

THE variety, extent and magnitude of new enterprises being established in the South give some indication of the truly amazing development under way in this section. It is difficult to sum up, even briefly, the outstanding enterprises reported within the last ten days or two weeks, but ignoring hundreds of smaller enterprises, indeed omitting many of the larger ones, the list is extraordinarily impressive.

Here, for instance, is a \$15,000,000 airplane plant with auxiliary facilities to be established near Baltimore; a \$1,000,000 plant for building runabouts and cruisers and flying-boats at Newport News by Detroit capitalists, and a \$1,000,000 plant at Pensacola, Fla., for producing insulating board, using as raw material the pine wood from which the naval stores have been extracted.

These are but typical of the almost innumerable enterprises under way all over the South. The magnitude of the church structures going up is indicated in the fact that there is to be a \$600,000 church building at Knoxville, Tenn.; a \$1,000,000 church at Winston-Salem, N. C.; a \$1,750,000 church in Washington. School buildings and churches, office buildings, banks, hotels, highway and municipal improvements generally are the order of the day.

Missouri, for instance, on its proposed \$75,000,000 highway program has sold an issue of \$7,500,000 of bonds for construction work; a \$750,000 fertilizer plant is to be built at Texarkana, Ark., and one to cost \$4,500,000 at Tampa, Fla., while it is proposed to build a \$7,000,000 bridge across the St. Johns River at Jacksonville. Louisville will hold a bond election on \$3,000,000 for new schools and additions to existing structures, while the Commissioners on Sewerage in that city will soon award the first contracts on a \$10,000,000 sewer plan.

Briefly summing up a few of the outstanding enterprises reported within the last ten days we have the following:

Scobey Fireproof Storage Co., San Antonio, will award contracts soon for a \$500,000 fireproof merchandise warehouse and cold storage warehouse.

Buckeye Cotton Oil Co., Memphis, will shortly let contracts for a paper pulp plant, entailing a big expenditure.

Work has been started on a two-story addition to the plant of the Union Bleachery, Greenville, S. C., estimated to cost \$350,000, in addition to a \$100,000 expenditure for a new power house.

Construction is being pushed on the \$1,000,000 plant for the Sylvania Industrial Corporation, New York, being erected at Fredericksburg, Va., for the manufacture of transparent paper.

Bonds in the amount of \$2,000,000, a portion of an issue of

\$6,500,000, voted by the Tarrant County Water Control and Improvement District, Fort Worth, have been sold and bids will be received shortly for the construction of dams and other facilities.

Tentative plans are being prepared for a bridge across the St. Johns River at Jacksonville and for two roads to connect therewith estimated to cost \$7,000,000.

Arkansas Portland Cement Co. proposes to double the capacity of its Okay plant by the installation of additional kilns and auxiliary equipment.

J. A. Elkins, Houston, and associates have selected an architect to prepare plans for a \$500,000 garage and store building.

The Bethlehem Steel Co. will start work soon on six open hearth furnaces at its Sparrows Point, Md., plant. Forty dwellings have been razed to provide a site for the new furnaces, and 80 dwellings near the shipbuilding plant of the company are to be razed to make way for an increase in the size of the railroad yards.

Construction is proceeding on a large plant for the United States Phosphoric Products Corporation at Tampa, estimated to cost over \$4,500,000.

Big Volume of Highway Construction

As the first financing in Missouri's \$75,000,000 highway program for which bonds were voted last fall, an issue of \$7,500,000 of 4½ per cent bonds has been sold and numerous important contracts will be let this fall so that work may get under way promptly in the spring.

St. Louis County Court, Clayton, Mo., has authorized preparation of detailed plans for expenditure of \$10,000,000 for new highways, provided by a recently voted bond issue.

Joseph M. Hill, Fort Smith, Ark., heads a commission appointed by Governor Parnell to select a site for a state hospital to cost \$3,250,000. In addition, \$250,000 will be expended for improvements at the State Tuberculosis Sanatorium, Booneville, Ark.

The Pritchett-Thomas Co., Nashville, has awarded contract for a \$500,000 garage to accommodate 600 automobiles.

Swift & Co., Chicago, will erect large produce plants at Paris and Taylor, Tex., complete with equipment for the manufacture of butter, the handling and feeding of poultry, packing eggs, and with ice and cold storage facilities.

Improvements costing more than \$500,000 are under way at the Candler Field, Atlanta, Ga., providing modern airport facilities.

Contracts are to be awarded soon for the first \$3,500,000

group of buildings comprising a \$14,000,000 government flying school at Randolph Field near San Antonio.

The American Tobacco Co. has awarded contracts for 5-story addition to its plant at Reidsville, N. C.

Commissioners of Sewerage, Louisville, Ky., will soon award the first contracts in a \$10,000,000 sewer improvement program.

Spartanburg, S. C., recently voted \$1,000,000 for sewer improvements.

The Board of Public Service, St. Louis, has authorized construction of the Southern-Arsenal joint relief sewer to cost over \$2,150,000.

Wide Diversity of Industrial Enterprises Projected

The Armstrong-Newport Co., organized by the Armstrong Cork & Insulation Co., Lancaster, Pa., and the Newport Co., Pensacola, Fla., recently acquired a 100-acre site at Pensacola for a \$1,000,000 plant to produce insulating board, using as the raw material pine wood from which naval stores, etc., have been extracted.

Construction has started on the second unit of a rayon plant at Parkersburg, W. Va., for the Viscose Co., to provide a total weekly output of 450,000 pounds of yarn. It is estimated that the expansion program will necessitate expenditure of more than \$5,000,000. The unit now in operation is producing 210,000 pounds of rayon yarn weekly.

The Aviation Corp., New York, has acquired a 500-acre site in the Back River section of Baltimore for an airplane plant, airport and auxiliary facilities to cost ultimately \$15,000,000. An all-metal super flying boat, said to be similar in design to the huge aircraft built by German manufacturers and now being tested on Lake Constance, Switzerland, will be produced.

Contracts will be awarded on October 21 for the first unit of a \$1,000,000 plant for the production of mahogany and steel runabouts and cruisers, flying boats and amphibian airplanes at Newport News, Va., for the Horace E. Dodge Boat and Plane Corp., which will move its headquarters to the Virginia city from Detroit. Selection of the Hampton Roads site was made after exhaustive comparisons of a number of available locations. Employment will be given to upwards of 2000 persons.

Work has started on a superphosphate and fertilizer plant for the International Agricultural Corp., New York, at Texarkana, Ark., estimated to cost \$750,000.

The Curtiss Airports Corp., New York, will soon start work on developing a 450-acre airport and training school at Houston.

Plans are being completed for the first units of a \$1,500,000 tire plant to be erected at Atlanta by the B. F. Goodrich Rubber Co., Akron, Ohio.

Costly Buildings of All Types Under Way

A \$500,000 historic-memorial building is under construction on the State Capitol grounds at Oklahoma City.

Construction is expected to start in February on a 20-story office building for the Aviation Building Co. at Fort Worth.

James Ruskin Bailey, Houston, is preparing plans for a \$600,000 apartment-hotel to be erected in Beaumont.

Contracts will shortly be awarded for a \$600,000 structure for Church Street Methodist Episcopal Church, South, at Knoxville.

Volk Brothers Co., Dallas, have let contracts for a \$500,000 5-story store building.

Southern Construction Co., Washington, proposes to erect a \$900,000 apartment building.

The Chesapeake & Potomac Telephone Co. of West Virginia

is considering plans for a \$5,000,000 to \$8,000,000 home office building to be erected at Charleston.

General Realty Co., Austin, Tex., is having plans prepared for a \$850,000 15-story hotel and theater building.

The Publix Theatres Corp., New York, may erect a \$500,000 motion picture theater in Nashville.

Contracts will shortly be awarded for erecting a \$1,000,000 Scottish Rite Temple in Baltimore.

Work is to start soon on a \$1,000,000 church and Sunday school building for Centenary-West End Methodist Episcopal Church at Winston-Salem, N. C.

The Foresters of America, headquarters Hartford, Conn., propose to erect a \$1,250,000 home for the aged at Eustis, Fla.

A bond election will be held in Louisville, on November 8, on an issue of \$3,000,000 for new schools and additions to existing structures.

Contract has been awarded for erection of a \$600,000 hospital for St. Louis County, Missouri, at Clayton, a suburb of St. Louis.

Architects have been selected by the Board of Education, San Antonio, to prepare plans for five new school buildings and for remodeling 22 structures, a part of a \$3,700,000 improvement program.

Contracts will be awarded in October for a public school in New Orleans to contain 40 classrooms, auditorium, gymnasium, cafeteria, manual training and household arts departments and other facilities, accommodating 1400 pupils.

General contract has been awarded by the Disciples of Christ for a church structure at Washington to cost \$1,750,000.

The Dent Theatres, Inc., Dallas, will erect a \$500,000 theater at El Paso.

Joplin Medical Arts-Hotel Building Co., Joplin, Mo., have awarded contracts for a 12-story medical arts and hotel building.

Washington University, St. Louis, awarded contract for \$1,000,000 improvements to the McMillan Eye, Ear, Nose and Throat Hospital.

The foregoing merely sketches some of the larger projects and the wide variety of the developments in the South.

HUNGARIANS NOT NEEDED IN MISSISSIPPI

GOVERNOR BILBO of Mississippi has appealed to President Hoover to relax the immigration laws to permit several hundred Hungarian families to come into Mississippi. We are not surprised at anything contrary to good judgment done by Governor Bilbo.

In criticism of the action of Governor Bilbo, the West Point Times-Leader expresses the hope that the President has the courage and conviction necessary promptly to decline this request. According to the Times-Leader there is no occasion for modification of present restrictions, and it adds that the Governor is merely trying to "do a turn" for some of the big landowners of South Mississippi "who hope to unload surplus acres of pine stumps on ignorant foreigners, without calculating the harm which might result to our social and economic conditions. * * * We have too many farmers already, as evidenced by the fact that there is an over-production in nearly all staple farm products, with a constant decline in the value of farm lands and farm improvements."

With the views expressed by the Times-Leader the MANUFACTURERS RECORD is in full and hearty sympathy, except we hope that the big landowners of South Mississippi are not responsible for seeking to bring in foreigners merely for the purpose of selling their land, for if the plan were carried out it would mean a disaster to the state.

The Advertiser and Publisher Are Co-Partners

HOWARD W. DICKINSON, writing in *Printers' Ink* recently, asserts that the advertiser looks upon the advertising agent and publisher as an organization apart from himself, when in reality they are part of him. The agency and the publisher can prosper only as the advertiser prospers. We are reminded that those who were considered big advertisers ten years ago would be small advertisers today.

In thinking of the agency or the publisher as unrelated to his particular business, the advertiser "fails to recognize them as his own legs, arms and lungs, his own cells which have evolved themselves into the organs which he now needs and which exist because he exists.

"He forgets that his own sales activity is the nerve center which should direct the efforts of agent and space seller, and that this nerve center rarely directs either the quality or quantity of those efforts intelligently.

"The manufacturer as a promoter is ill trained to fit into the stage of business evolution in which he finds himself.

"As a consequence of this unsatisfactory state the manufacturer-promoter finds himself leaning heavily on the agent and publisher, but not trusting them fully, nourishing them only to the extent he is obliged to and resenting their steady growth and influence. They have acquired that growth and influence because they have served him extraordinarily well. They deserve much from him and they are no more selfish in their wish to make successes equal to their deserts than he is."

Dealing specifically with the publisher's side of the case, Mr. Dickinson points out that the advertiser has been asking too much of his publisher under the present era of industrial evolution. He talks plainly to the advertiser when he asserts:

"Yes, you are asking too much of your publisher. You are asking him to make a little space do the job that needs a lot of space. You are asking one publication to do a job that four publications can do six times as powerfully and profitably.

"The message of the powerful advertisers to their agents and publishers always is, expressed or implied: 'Please see to it that we spend enough. And don't be too stingy in your idea of enough.'

"Now I want to be specific and say to whom I'm talking. Here's a part of them:

"1. To the majority of package food producers, with the possible exception of Campbell, Del Monte and a few others.

"2. To all but about four soap producers—Palmolive-Colgate, Ivory, Woodbury and Life Buoy-Lux.

"3. To practically all of the cloth makers, shoe makers, and underwear people.

"4. To at least nine out of ten of the makers of radio sets; not sure that I except anyone besides Atwater Kent. This field is disgracefully under advertised and its fertility sadly underrated. Copy is as a rule still pretty bad.

"5. To the members of the oil-heater industry. An industry to come very fast if power enough is applied and well directed.

"6. To makers of Diesel engines, whether they need the business right now or not.

"7. To furniture makers. Attention needed to both quantity and quality of advertising, also to the economics of prices.

"8. To paint and varnish people, pretty generally.

"9. To bottlers, with the possible exception of the three leaders. Not at all sure I'd make those exceptions. Multiply an average of 25 individual thirsts a day by 365 and that by 125,000,000 and see how many thirsts there are in a year. That makes a nice little trip into Advertising Land.

"10. To office appliance men in general.

"11. To insurance and investment houses.

"12. Banks and banking associations. Once in a dog's

age a chap appears who sees the romance of banking, a big story itching to be told.

"12-a. The ice, coal and gas industries. (Note—I am not superstitious, but there's no thirteenth floor in the building which houses *Printers' Ink*.)

"14. Toothbrushes and toothpastes, not to take the market from each other as now, but to make more people brush their teeth.

"15. We need a few more Hart, Schaffner and Marxes.

"16. A lot of informative advertising from the oil industry, and a whole lot of help keeping gasoline taxes down.

"17. Sound economics and important facts from the electrical household appliance industry.

"18. Ten to twenty million dollars a year more of book publishers' advertising. The growing craze for education might use up half of it for informative books alone.

"19. Publishers' advertising to advertisers. Quality needs attention as well as quantity. Such advertising also may be very effective in teaching the general public more about values in advertising.

"20. Musical instruments and musical instruction. This natural human thing has had too long a vacation."

Here, according to Mr. Dickinson, is a list of concerns that while advertising after a fashion are not taking advantage of the power of a comprehensive advertising campaign. There are, of course, many other interests not availing themselves of the opportunity to become better fortified in this highly competitive era. Especially is it noticeable in the machinery and equipment industries. It is badly needed in the textile industry.

Railroads and hydro-electric interests should spend ten times the amount they are now expending if they are at all awake to the opportunities offered them by big bold advertising of their advantages of travel, of industrial development, of resort business and many other features.

SOUTHERN AGRICULTURAL INTERESTS DEMANDING A PROTECTIVE TARIFF

A STRONG statement has been issued by the Cooperative Extension Work in Agricultural and Home Economics of Louisiana, which represents the Louisiana State University, the U. S. Department of Agriculture, the Agricultural Bureau of New Orleans, and the Association of Commerce, all cooperating with this extension work. In setting forth the reasons for a suitable tariff for Louisiana, the statement reads:

"The final journey for the tariff bill is now under way and if the agricultural industry of the South wants to get the benefits from this measure to which it is justly entitled, its people must be active and alert. Long staple cotton has been placed on the free list, also copra which competes with cottonseed. The sugar tariff has been decreased from the original figure and the duty on certain fruits and vegetables has likewise been decreased. These changes all mean the lowering of the agricultural income of the South and unless our people fight for what is to their benefit, business and agriculture in general will suffer. Louisiana has much at stake in connection with many of the changes made and all agricultural interests should be solidly back of any movement to put the products of this state in a favorable position, so far as the tariff is concerned. A tariff bill is going to be passed. That much seems certain. Such being the case why should not Louisiana draw the benefits from it that other sections of the country are going to get and will get, because they have been active in the fight for the things they are entitled to. Millions of dollars can be added to the agricul-

tural income of Louisiana if schedules requested can be carried in the tariff measure."

Why should the South lose this supreme opportunity to enrich itself, not only its agricultural interests, but its industrial and business interests generally, by permitting its politicians to fight against a well rounded national protective tariff? Here is the South's opportunity to make itself heard.

A BALTIMORE PUBLIC UTILITY, SEEING ERROR OF ITS WAYS, WILL HEREAFTER GIVE PREFERENCE TO AMERICAN MADE MATERIALS

CONSIDERABLE criticism was recently raised by Baltimore people, in finding that the United Railways & Electric Company in relaying its tracks on one of the busiest streets of the city, had put down rails stamped "Made in Belgium."

In reply to an inquiry concerning this action, an official of the company in substance advised the MANUFACTURERS RECORD that about four to six years ago the company was able to purchase at an attractive price about 1,500 tons of T-rails from the representative of a Belgian mill. The rails happened to be stored at the time in Baltimore, and he believed some of the rails were purchased by the Boston & Maine Railroad. He added that the company had not purchased any foreign rails, with the exception of this one order, nor does it intend to purchase any more rails abroad. "It is," he added, "the policy of the company to purchase American-made products in preference to goods produced by foreign plants."

The MANUFACTURERS RECORD is glad to have this assurance of the purchase of American-made products in preference to foreign products. A few years ago we had to criticize rather severely the Consolidated Gas, Electric Light and Power Company of Baltimore for using a large amount of large size gas pipe which had been produced abroad, notwithstanding the fact that this gas and electric company, like the United Railways, is wholly dependent on the progress and prosperity of the people of Baltimore for its success.

In view of the fact that the Bethlehem Steel Corporation has about \$100,000,000 invested at Sparrows Point, Baltimore, its iron and steel works, including a rail mill, it does seem a little surprising that even four or five years ago the United Railways & Electric Company should have purchased foreign rails when its own lines connect directly with the plant of the Bethlehem Steel Corporation.

It is good, however, to know that the company has seen the error of its way, has repented of its sins and turned its back on that policy. Would that every other business concern in America would see the light.

PRESIDENT HOOVER DRAWING HEAVILY ON TENNESSEE

IT is an interesting fact that President Hoover has recently called to the head of the Engineer Corps, Maj. Gen. Lytle Brown, a native of Tennessee, and that another Tennessean—though born in Indiana—Claudius H. Huston has been made chairman of the Republican National Committee. The criticisms for a time heaped upon President Hoover, on the alleged ground that he was ignoring the South in his appointments, are shown to have been premature and unjustified. In seeking men of ability to carry out the plans he has in mind we have no doubt that the South will be liberally represented by men called by Mr. Hoover to some of the great tasks which the nation is facing.

SENATOR WHEELER LABORS UNDER A MISAPPREHENSION AS TO COST OF PIG IRON

HON. BURTON K. WHEELER, of the United States Senate, who recently denounced a tariff on pig iron in the statement that the cost of labor on a ton of pig iron was only \$1.13, which he later corrected to \$1.23, in replying to a letter on the subject, has written the MANUFACTURERS RECORD as follows:

"I have your letter of the 29th ultimo, in which you challenge a statement recently made by me dealing with the labor cost in the production of a ton of pig iron and requesting that I indicate to you the source of the data on which this estimate was made.

"I discover that a typographical error in the newspaper statement made me to say that the labor cost in the production of pig iron was \$1.13 a ton. This should have been \$1.23 a ton. This slight difference, however, does not substantiate your assertion that you 'know the cost of labor on a ton of pig iron was a good many times the figure that you have quoted.'

"According to the Census of Manufactures, compiled by the Bureau of Census, Department of Commerce, the total labor cost entering into the production of a ton of pig iron in 1925 was approximately \$1.23. I refer you to the official report for substantiation of this estimate.

"It shows that for 1925 domestic blast furnaces produced 36,495,562 long tons of pig iron, for which the entire wage cost was \$45,312,168. A simple computation will indicate to you the labor cost of producing a ton of pig iron.

"In the statement to which you refer I endeavored to demonstrate that there is no basis for the claim that higher duties on pig iron are needed to protect the American worker from the competition of low paid European workers. I pointed out that, according to official statistics, the American worker produces so much more than does the European worker that the latter, when product is considered, is the better paid. The records disclose that for a dollar in wages the American iron worker produces .81 tons of pig iron, while for a dollar in wages the English worker produces only .41 tons of pig iron. (See British Ministry of Labor Gazette, July, 1927, p. 250, and other numbers there referred to.)

"If a dollar of wages produces .81 tons of pig iron, the cost of a ton is approximately the sum I have stated.

"From these comparative data the conclusion was drawn, correctly, I think, that if other countries could produce pig iron without cost of labor our tariff would still be too high. The fact is, however, that unit for unit the English cost is greater than the domestic cost.

"To my knowledge, no responsible person has questioned the validity of the reports of the Bureau of the Census. Unless you are prepared to do so, you must accept my conclusion that the figures as here given are correct and that you were laboring under a misapprehension when you stated that my estimate was a good many times too low."

To the foregoing letter the editor of this paper has replied in a way which we believe will possibly convert even Senator Wheeler from the error of his way on this tariff situation. Our letter follows:

"Replying to yours of September 7th:

"You have not taken into account in the cost of producing a ton of pig iron the labor cost of mining the coal, of making the coke, of mining the iron ore, of mining the limestone and of the transportation of all of these materials to a central point, merely to be dumped into a furnace which burns the coke and melts the ore and turns it into the pig iron.

"The cost of producing a ton of pig iron after all of these materials have been mined and gathered is, of course, comparatively small, though the Department of Labor reports higher figures than you quote even in your corrected statement.

"Your estimate of the cost of making a ton of pig iron is just about on a par with saying that the cost of producing a bushel of wheat was merely the cost of threshing it out after the plowing and seeding and harvesting had been done. I am sure you will recognize the correctness of this comparison.

"And then let me call your attention to the fact that Eng-

land has long since ceased to be even considered for a moment as a competitor in iron production. Its plants are largely out-of-date; its iron trade has for years been steadily deteriorating and, therefore, to consider the English costs as basis of comparison with American cost indicates that you are thinking in terms of the English iron trade of thirty or forty years ago, and not of the situation as it has existed for the last twenty or twenty-five years, and more especially in the last ten or fifteen.

"I believe I have called your attention to the fact that a great India iron and steel plant, where the rate of wages was for years between seven and eight cents a day for 8000 employees, including skilled labor, and where the rate is now about nine or ten cents a day, is producing pig iron at a very much lower price than this country can do. That great plant is managed by Mr. Charles P. Perin, a distinguished American engineer. I heard him make the statement some years ago that his rate of wages for 8000 employees was between seven and eight cents a day, including skilled labor. Three years ago, in Charleston, S. C., before the Foreign Trade Council, he reported that wages had advanced to ten cents and that one of the leading capitalists owning the plant was disgusted at what he thought were wages which were entirely too high.

"That concern has laid down pig iron in Virginia at a very much lower price per ton than the actual cost of production in Virginia. It has recently shipped pig iron to Texas in the same way and it is from time to time increasing its shipments to this country.

"There are European countries which are able to make pig iron at a very much lower cost than England is doing, judged by their ability to ship pig iron to this country while England cannot do so.

"I am sure, my dear Senator, that when you consider that the threshing of a bushel of wheat does not represent the plowing, the sowing, the harvesting and the cost of all the labor involved, that the same condition holds equally as good in regard to the production of pig iron. I am, therefore, in the light of the facts which I have presented, compelled to decline to accept your conclusion that the figures which you gave are correct and, paraphrasing your own words, I think you are laboring under a very serious misapprehension, which possibly will be changed when you study the cost of wheat production, and remember that the threshing of it does not comprise the total cost."

Charles E. Baldwin, acting commissioner of Labor Statistics, U. S. Department of Labor, Washington, replying to a letter from the MANUFACTURERS RECORD asking as to what study had been made by the department of the cost of mining ore and coal as a part of the cost entering into the cost of producing pig iron, writes:

"We have made no study of cost of mining ore or coal for many years, and we know of no figures on this subject nearly enough up-to-date to be of any service to you. The funds of this bureau are so limited that we can not undertake such a study."

And yet, while the Department of Labor has not found it feasible to investigate the cost of the ore, and the coal, and the coke which enter into the production of pig iron, Senator Wheeler claimed that the Department of Labor reported that the total cost of labor in a ton of pig iron was \$1.23. What a limitless amount of misinformation is put before the public from supposed authorities in Washington, especially from those who speak in the House and in the Senate on subjects with which they have no acquaintance whatever.

RULERS OF RUSSIA

LEST we forget, the Industrial Defense Association, Inc., reminds us that:

"The Soviet Government is made up approximately of: Russians, 32; Poles, 2; Czechs, 1; Letts, 34; Finns, 3; Armenians, 10; Hungarians, 1; Georgians, 3; Germans, 10; Jews, 469. In other words, to 96 Gentiles there are 469 Jews, or one Gentile to almost 6 Jews. The proportion of the Russians to the Jews is as 1 to 17. The figures speak eloquently enough to settle even the most skeptical mind as regards the question 'Who rules Russia?'"

INDUSTRIAL SOUTH SHOULD BE LARGELY REPRESENTED AT AN- NUAL MEETING OF NATION'S MANUFACTURERS

THE National Association of Manufacturers, representing to a large extent the manufacturing interests of the United States, will hold its annual meeting in New York on October 14-16.

The annual gatherings of this great organization bring together many of the foremost industrial leaders of America. It is pre-eminently desirable that the South should be largely represented at these meetings, and membership in the organization should include a large proportion of the active, aggressive manufacturing leaders of the South.

Since the day when D. A. Tompkins of Charlotte was one of the vice-presidents of the National Association of Manufacturers the South has not been as fully represented in membership as it should be, and, therefore, has not had quite the commanding voice in this influential organization that it once had. Of late years, however, J. E. Edgerton, president of the Tennessee Manufacturers Association and himself a leading manufacturer, has been president of the national association, and by reason of his pre-eminent abilities in that position the South should follow his leadership and take a more active part in the work of the organization than it has done since early days when several of the national meetings were held in the South.

It will be remembered that last year's meeting was held at Chattanooga. This year, as stated, the association will meet in the very heart of the great financial forces of the country, and Southern men owe it to themselves, to their section and to the country at large, to become members and to take an active part in the work.

This organization is not sectional. It is a broad, national organization, representing the entire industrial interests of the United States.

During the convention there will be a Get Together Luncheon of those who have been members of the organization for over 25 years. That should be a great gathering, of vital interest to those who are coming together around the luncheon table to renew the friendships and the acquaintanceships made during the last 25 years of active membership in the organization.

The Tariff and Politics As Seen in North Carolina

[From the Charlotte, N. C., Observer.]

The MANUFACTURERS RECORD accords praise to the backbone, moral stamina and judgment of "a few Southern Senators and Representatives who are ready to join with the protection interests of the country in fighting for a well-rounded tariff which will protect the interests of the South, as well as the interests of other sections." "Lamentable, indeed," says the RECORD, "is the short-sightedness of so many members of the House and Senate, who, merely through hatred to the party in power, thus injure their own section and are willing to see its prosperity broken down."

The RECORD wants a protective tariff on "manganese, bauxite, clays, cotton, jute, and other products of the South," and it might have instanced abrasive garnet, of which a whole mountain full stands idle in Jackson County, because unprotected against importation of an inferior article, and monazite, the shoveling of which from the creek bottoms in Cleveland developed a source of prosperity to the farmers, but killed for the same reason. Verily, when it comes to discussing the tariff, there are angles other than those mainly seen by the politicians. There are instances where the Republican policy of "protection" comes in quite handy.

President Edgerton Speaks for Organized Industry in Behalf of Flexible Tariff

In reply to a request for his view on the "flexible" feature of the proposed tariff measure, John E. Edgerton, president of the National Association of Manufacturers, wires:

"Speaking for the organized industry of the nation, we most heartily support President Hoover's position in regard to the fundamentals of the flexible administration of the tariff. If enacted, it will be one of the most progressive steps in our economic history and one that will be for the benefit of producers, consumers and direct taxpayers.

"As the President says: 'It is entirely wrong that there shall be no remedy to isolated cases of injustice that may arise through the failure to adequately protect

certain industries, or to destroy the opportunity to revise duties which may prove higher than necessary to protect some industries and, therefore, become onerous upon the public. To force such a situation upon the public for such long periods is, in my view, economically wrong and is prejudicial to public interest.'

"The flexible administration of the tariff will go a long way toward doing away with long-drawn-out wrangles in Congress such as we are faced with today. For five months this vital question has been on the political operating table. In the meantime, business has been marking time, and in many instances plans for industrial extensions and expansions have been held up. Every day of this uncertainty witnesses

the further slowing up of our economic pace, for there are few things with which it is more difficult for industry and business to cope than the uncertainties of political action upon a basic economic issue.

"It is our firm belief and contention that these proposals contain nothing which any man of either of the major political parties cannot support consistently with the platforms upon which they were elected. I earnestly hope for the earliest possible enactment of a tariff measure which shall contain without substantial change the flexible provisions now pending. Our country has a right to this consideration. Business sorely needs it, and even enlightened politics can impose no justifiable obstruction or objection."

Elizabethton Rayon Mill Workers Vote 11 to One Against Strike

It is announced by the Elizabethton (Tenn.) Star that recent efforts of outside labor agitators to stir up fresh trouble in the rayon mills of the Glanzstoff and Bemberg corporations have scored a total failure. The completeness of this failure is thrown into bold relief by the strike vote recently taken in the mill, at the instance of the management but under the supervision of employes, for the vote cast—and it was a secret ballot, counted by a committee from the workers—indicated 2883 against a strike, while only 255 were for it; or about 11 to 1 opposed.

The conditions leading to this vote, as described by the Elizabethton Star, constitute a damning recital of the unscrupulous and destructive union tactics. According to the Star, union agents had organized a small group, a considerable proportion of whom were farmers from the surrounding hills who had never been employed in the mills. Whether they actually succeeded in extracting dues from these farmers is not stated; presumably they were used merely to swell the ranks at meetings and give an

appearance of interest and good attendance. But from the flood of dues poured into the union coffers last spring during and after the strikes in the two plants, receipts had fallen away to almost nothing, and the agitators were facing the choice between increasing their income or leaving town. As a means of increasing revenues, they began talk of a fresh strike, and for two weeks or so kept up a constant ferment in the little city. Workers, misled and fearing another period of idleness, began paying dues as a sort of unemployment insurance.

Thus a living was provided in Elizabethton for these agitators.

The effect upon Elizabethton is analyzed by the Star about as follows:

Strike talk, published in newspapers all over the country, made rayon consumers afraid to enter into contracts with either Glanzstoff or Bemberg, and thereby retarded expansion of the working forces in the two mills.

Employes, afraid of a period of enforced idleness, hoarded their earnings at the expense of local merchants and the satisfaction of their own wants, but paid dues to the union, for which they got nothing whatever.

Work of all sorts by local artisans, in maintenance of homes, stores and so

forth, was delayed, and much suffering was in sight.

The prospect, cherished by local people, that new industries would locate in Elizabethton, seemed doomed to vanish.

It was to end this unhappy state of affairs that the mill management, confident of the falsity of the agitators' claims, brought about the strike ballot.

Two reasons are assigned by the Elizabethton Star for the overwhelming vote against the strike. The first is that the working conditions are grossly misrepresented by the agitators, that conditions are good, and the people are well satisfied. The second is that at least 4,000 people in and near Elizabethton would like to have jobs in the mills, and that if all the workers went on strike they could be rapidly replaced.

\$7,000,000 Telephone Conduit

St. Louis, Mo.—The Southwestern Bell Telephone Company announces the beginning of excavation here for the \$7,000,000 underground cable conduit it plans to lay between St. Louis and Kansas City, work having been under way for several weeks on the western end. The route of the conduit will follow U. S. highway 40, it is said, and the cable to be installed will provide 25 voice channels. The line is expected to be in operation within 14 months.

Suggestions About Safeguarding Bank Deposits

On the cover page of the MANUFACTURERS RECORD of August 29 the following appeared:

Can Bank Deposits Be Guaranteed?

Many efforts have been made to safeguard bank deposits, but no system yet devised has been satisfactory. However, the question is one which, by reason of many bank failures in recent years, demands the most careful consideration by the people of the country.

Bankers hold a peculiar relation to a community. Other business concerns make their profit, if any, out of the use of their own capital. Banks, on the contrary, make their profits on the use of deposits, which in most cases many times exceed their capital. Because of overhead expense, few, if any, banks could operate successfully on their own capital. A bank, therefore, becomes practically the trustee of its depositors and of the community in which it operates. Its suspension or failure entails extreme hardship, even if the suspension be only temporary. When it is permanent it means a heavy loss to innocent people who

in no way whatever were connected with the bank's management.

In lending money to borrowers, bankers often require that a considerable proportion of the money thus borrowed shall remain in the banks, which largely increases the actual cost of interest to the borrower. State inspection of state chartered banks and national inspection of national banks are intended to safeguard their depositors by keeping a careful watch on the actions of bankers, but it often happens that not a hint of an unsafe condition is heard until the bank doors are closed. Often these suspensions are as sudden as the story of the old negro woman who handed in a check to be cashed when the window was instantly closed and the curtain drawn. Turning to a bystander, she asked what had happened. His reply was, "The bank has busted: Did you never hear of a bank busting?" "Yes," said she, "but I never had one to bust in my face before." The "busting" of a

bank comes with an equal shock to every depositor whose money has been placed in the bank by reason of faith in its officers and lessens the public confidence in all banks and all business interests.

Conservative bankers are opposed to bank guarantees on the ground that that encourages wildcat banking methods. Indeed, guarantees have in many cases proved disastrous and in nearly all cases unavailing for the quick repayment to the depositors. Nevertheless, some method must be devised to safeguard deposits in banks, in order that the money of an individual or community shall not be tied up temporarily or permanently by bank suspensions or failures. There must be some remedy and to the solution of this problem the best banking thought in America must give attention, for otherwise people will hoard their money instead of putting it on deposit where its use is good for the whole community. The subject cannot be ignored.

That editorial has brought forth the following interesting discussions of the subject.

Views of an Attorney Who Has Handled Much Refinancing Work and Is Familiar With Country Banks

New York.

Editor Manufacturers Record:

I have been intending to write you on the subject of banking generally for some time, but your cover editorial of August 29 calls for some comment.

In my reorganization work I have always found the most numerous creditors to be the small banks scattered over the country where the project had been financed and so I have been familiar for years with the problem of the so-called country bank. I have also been familiar with the methods of the big city banks and I recall one interesting interview with one of the biggest New York City banks. When I paid off the \$600,000 loan they had made to the railroad project, and after paying them their principal and interest in full, they wanted an especial bonus paid to them because they had broken their rule "never to lend on anything but listed securities" in making the loan to this project, which had tied up so much of their money. What I said to them would hardly look well in print, but the substance of it was that they were fortunate in having made their loan to a group

of honest men who had actually spent the money in building a property that was worth more than it cost, but that they were entitled to nothing since they had made the loan in total ignorance of values just as they did in the cases of loans made only on listed securities.

Now the question of the security of bank deposits is solely one of loans made against property of value, and the only guarantee of bank deposits is a generation of bankers who know value and who refuse to make loans in ignorance thereof. Such bankers are not found in the cities, for there they have long since abrogated any judgment of values in favor of a quotation at which they expect or hope to be able to realize at the early maturity of the loan. The safety of the city banker lies in the fact that almost all of his loans are on call.

It is manifest, therefore, that the safety of the depositor who has been losing through the failure of small country banks is not in branch banking and in the absorption of the local banking institution by some far away central bank. The main cause of failure of the thousands of banks that has brought distress to the Northwest, the middle west and the South has been the foolish practice of authorizing banks with utterly inadequate capital. How under the sun can you expect a bank with \$10,000 capital to succeed when it would be impossible for the entire capital to produce

enough income to pay the rent of even a modest country banking office let alone the salary of a cashier or anybody else?

The first thing that must be done to save the small town depositor is to reorganize the banking laws of all the states, providing that no bank shall be either chartered or permitted to continue in business unless it can demonstrate that the income from its capital and surplus is sufficient to pay the primary operating expenses. My own experience has led me to believe that this minimum of capital should be not less than \$30,000. It really ought not to be less than \$50,000, but there are places where interest rates are sufficiently high normally to enable a \$30,000 capital to earn enough to pay the salary of a cashier and a \$50 a month rent. The argument against this minimum of capital has been and is that such minimum would deprive many small towns of any banking facility, but the answer to this is that it is better not to have any banking facilities than to have a bank that is sure to be operated at a deficit and which must therefore fail. The real solution to the unit banking system is a minimum capital that will insure payment of operating expenses and the teaching of our people to bank by mail. Instead of country people going to town to make deposits or to withdraw currency they must be taught to use the mails. Practically all payments that amount to anything are

made by check and it only takes a two cent stamp to send a check endorsed for deposit only to the nearest bank. On the other hand, if one wishes to draw currency it only takes a two cent stamp to write to the bank to ship the small amount of currency needed and it only takes 18 or 20 cents to get the small amount of currency back by registered mail, insured via rural free delivery. There is not only no danger but an infinite saving of time and no one could afford either to go to town with his team or his automobile for as little as he can do his banking by mail.

There are many more arguments, but this outlines the real problem and its correct solution.

GUY M. WALKER.

The Public Relies Upon State Banking Examinations, But Often Gets Left

Iselin, N. J.

Editor Manufacturers Record:

I have read with interest the front cover article regarding bank deposits. I am not a banker, but my experience in the real estate business brings me in touch with people of all degrees, high and low, rich and poor.

Safeguarding of the monies of individuals is, and always has been, a very serious business. Corporate institutions, which we call banks, be they trust companies, commercial or savings banks are organized as depositories for the (presumably) safekeeping of monies entrusted to them. However, experience too often shows the fallibility of one of the institutions, and when one such institution fails and closes its doors, and as the colored woman says, "when they go bust in my face," it makes much hardship with everybody connected with the bank.

Experience has shown that every bank honestly conducted by reliable business men, as a rule is the most successful in the community and becomes a money making institution, and proves profitable to the stockholders.

I will not dwell upon the methods pursued by bankers in efforts to obtain large interest income on loans through the too common method of compelling a borrower to leave a large percentage of his accommodation loan on deposit with the bank, but rather I would pursue the thoughts which I have as to how banks can be made safe for the depositors, and also the shareholders who are the responsible parties in the institution. The banks receive deposits and have in trust monies from the public many times in excess of their capital, a ratio sometimes as high as 40 to one, and it is on these large trust monies that the profits of the bank are made.

The public would absolutely refuse to deposit their funds in any bank were they not assured in some manner of the reliability of the institution. This confidence is most largely brought about by virtue of the fact that examiners, employed by the states wherein the banks function, do at various periods examine the books of the institution, scrutinize

its loans and the collateral therefor, investigate the methods of procedure under which the bank has been conducted, interview the personnel and endeavor to learn if there is anything "rotten in Denmark" as far as that institution is concerned. In the absence of unfavorable reports, the confidence of the public continues because of the public relying upon the opinion of the State Banking Department in its supervisory capacity in controlling the affairs of the various banks in their respective states.

This brings the state government into line as a sponsor for the good conduct and condition and stability of every institution so investigated and favorably reported, and in the event of one of those institutions failing to continue its business and discharge its obligations, the state should be held responsible for any losses sustained by the depositors who have entrusted their monies to the care of that institution.

The cost of the conduct of the State Banking Department is, as a rule, paid for by the citizens within the state, or by a special tax upon the business institutions in connection with the banking interests of the state, and inasmuch as these monies come from the public in the finality, the public should receive something bonafide therefor, and it seems to the writer that every institution in the banking business should be compelled to pay a percentage of its profits into a fund which is to be received by and cared for and invested by the comptroller or treasurer of the state, and this fund allowed to increase, without cessation, providing thereby funds which can be applied to the 100 per cent liquidation of the depositors credits of any failing or failed institution.

Every thinking man knows that the stocks of well conducted banks, after a few years, increase continually until today institutions which have been in the banking business for 25 years or more, show a market value for the shares of many times their par or face value, and this increase in marketable value is the result of the profits of the institution merged into a continually increased surplus, the greater part of which has been made possible by virtue of the large line of deposits which a confiding public has earnestly entrusted in the care of the bank.

This can be regarded as an insurance that bank depositors will receive par for every dollar they have deposited in any bank, and it might be regarded in line with the activity of an investment broker who will receive monies for investment, the principal of which he will give security for on the condition that the profits which may result from the turnover of the entrusted funds will be divided, part going to the depositor and the balance to investment banker or broker.

While the State is a partner in the banks by virtue of its supervisory control through the State Banking Department, there can be no method of taxation applied to the people of the commonwealth that will bring forth monies which can be used as an insurance capital, but the thought of the writer is that the people who make the profits are the ones who should contribute a percentage of these profits into a fund which will adequately protect the accounts of depositors.

ALFRED D. HYDE.

Under This Plan We Fear Few Would Engage in Banking

C. A. Stuck & Sons,
Lumber

Jonesboro, Ark.

Editor Manufacturers Record:

I consider making banks safe for the depositors one of the most essential problems of the day. I believe the stockholders should be liable for the full amount of the bank's deposits and in addition that each stockholder should annually make to the banking department a sworn statement of his assets and liabilities and there should be a heavy prison penalty for false statements or transfer of property that will reduce their ability to pay. Banks should be limited in the amount of the deposits they receive to the amount of net worth of the stockholders.

I trust that you will continue to advocate this much needed cause until our country gets some relief.

W. R. STUCK.

Believes Strong Central Banks With Chain Banking System the Way to Solve the Problem

Orlando, Fla.

Editor Manufacturers Record:

Your editorial covers a subject that is very much in mind in Florida these days and one that is certainly worth consideration by the best authorities.

To my mind Mr. Craig B. Hazlewood in the Saturday Evening Post of August 24 covers the main answer to your question in the part of his article under the sub heading—"Where a Slight Error Is a Catastrophe."

While it is true there are a number of arguments against so called branch banking, I believe that each institution should be its own guarantee and this is only possible to the very large, well established and managed financial houses with diversified dealings.

When the public goes to one of our great railroad systems for service it has every confidence that whatever is entrusted to that company will be fully protected and that the company will not decide to go out of business over night and keep its property or return only part of it in six months or a year.

We have some strong banking houses in Florida and from recent press accounts we are to have a chain of new banks headed by interests that would never have to close their doors for the need of a million or so dollars in any emergency.

Let the public put its money with banks that have something behind them besides the legal reserve of 20 per cent or whatever it happens to be and encourage the big banking groups to operate in each community.

Who would want to return to the little isolated lighting and telephone companies and jerk-water railroads for that class of service?

Why not the same general plan applied to banking service?

R. L. CORNELL.

Suggestions Toward Insuring Greater Safety to Depositors

Orlando, Fla.

Editor Manufacturers Record:

What can be done to give depositors of a bank a greater degree of safety? After what has happened in Florida the past six or eight months, I have in mind a few suggestions toward this end:

(1) That each stockholder of every banking institution shall deposit with the comptroller or state bank commissioner an amount in cash or its equivalent equal to the amount of stock held.

(2) That no officer or director shall borrow more than 30 per cent of the paid-in capital stock of the bank with which he is affiliated.

(3) That no bank shall lend more than 5 per cent of its paid-in capital to any corporation in which an officer or director of the bank is interested.

(4) That not more than 1½ per cent of the paid-in capital of a bank shall be loaned to any one individual on unsecured notes.

(5) That not more than 10 per cent of the paid-in capital of a bank shall be loaned to any one corporation on unsecured notes.

(6) That not more than 15 per cent of the paid-in capital of a bank shall be loaned to any one individual or corporation.

(7) That not more than 70 per cent of the net earnings in any one year shall be paid out in dividends.

(8) That the capital, surplus and undivided profits of a bank shall be not less than 12½ per cent of its total deposits.

(9) That no loans or renewal of loans shall be made when the cash on hand and in banks is less than 20 per cent of the bank's total deposits.

(10) That an examination be made annually by a certified public accountant or firm of certified public accountants, in addition to the regular examinations made by the banking department.

J. P. RISTIG.

Believes Insurance of Deposits Is Feasible

Waynesboro, Ga.

Editor Manufacturers Record:

Having had many years experience in the banking business and having been a bank executive, please let me state that bank deposits can be successfully guaranteed or insured, as I shall explain.

I advocated the guaranteeing or insuring of bank deposits by a large bonding or surety company and in fact, I went so far as to handle the matter with a large company, who were willing to insure the deposits of the bank of which I was an executive, in amounts of \$50,000 and upwards.

The old laws made for the protection of bank depositors, such as requiring the bank to carry, under either the State or Federal law, 25 per cent of their demand deposits in available cash, either in their vaults or with approved reserve agents is out of date; the law is obsolete, due to the fact that bank deposits are much

larger and business is much more active than it was, hence this law should be changed. Banks should be required to carry a cash reserve in proportion to their deposits, small banks, such as having so much trouble should be required under the law to carry not less than 50 per cent of their deposits, either in marketable securities, cash or with approved reserve agents.

Unfortunately for the bank, the community in which it is located, whether large or small, looks upon a bank not as a bank, a safe and sound place to deposit money, but as a loan institution and if the bank, after having operated for several years paying expenses, dividends to stockholders, etc., has not accumulated a surplus account equal to capital stock, they are criticized for not being "progressive." And having made money, too many bank officials lose sight of the fact that they are not running a mercantile establishment and due to their desire to pile up this big surplus, they are, in a way, too careless.

Now, if these deposits were guaranteed or insured by a large bonding or surety company, they would have this bank and all of its securities thoroughly examined and have something to say about the management of its affairs and I believe it would be a good idea. The present laws affecting the examination of banks are rather loose; there is great stress placed by some on these examinations for the protection of the depositor, yet very little said or done for the protection of the stockholders.

I am an advocate of branch-banking, provided, of course, the mother bank is strong enough to take care of her children.

Should I ever re-enter the banking business the first thing I would do, would be to have my deposits guaranteed by a firm who were financially strong enough to handle the proposition as it should be.

C. E. BAKER.

West Virginia Claims to Have Solved the Problem of Safe State Banking

[From Fourth District Finance & Industry]

Failures Cost State Little

West Virginia Loses Only Through National Banks; State Banks Become More Popular There; State Has Big Balance

While the state of West Virginia has lost a total of \$31,000 in the past 12 years through bank failures, none of this came through the failure of a state bank. Twenty thousand dollars was dropped at one time in the collapse two years ago of the First National Bank of New Cumberland.

State banks are rapidly taking the lead in West Virginia banking. This is shown by the fact that each year state bank deposits are more extensively exceeding national bank deposits. Moreover, differences between national and state banking laws are resulting in many national banks surrendering their char-

ters through mergers with state institutions.

In making a bank a depository, under the state law, West Virginia becomes automatically a preferred creditor. Public funds are thus covered through bonding, by which it is clearly stipulated that a defunct bank must settle all claims pressed by the state before any other distribution of funds can be made. A state bank must furnish bond in an amount double the declared resources. In addition to this every stockholder and official of the bank must be fully covered with an adequate bond to take care of any possible shortage, and a stockholder having, for instance, \$1,000 worth of stock, must in the event of failure be liable for not only the stock held but an additional amount equal to its value.

It is due to the provisions of a law, making criminal embezzlement a serious offense, that probably prevents more failures than are now recorded. But the 16 banks in the state, which have been virtually looted by crooked officials, were all national institutions. Of the 267 depository banks holding state funds, 103 are national and 164 or 61½ per cent are state banks. In the cases where state banks failed, the state recovered every penny of its money deposited, but had no recourse in recovery of funds from failed national banks.

In the looting of the New Cumberland First National Bank, the state lost its heaviest amount. Prior to that time, the losses were so small and scattered as to be almost negligible. In the New Cumberland failure, the loss was due to the fact that the shortage was so extensive, having been carried on over so long a period that the stockholders and personnel were cleaned out even to a man who was neither an official or stockholder, yet as a friend of the institution he had taken out bond. The bonds covered liabilities twice the reputed wealth of the individuals, yet the persons who were thus signed up were successful in proving their inability to produce funds or property equivalent to the losses suffered by the bank. Prior to this failure the state had not suffered the loss of a single dollar.

The state has had a big bank balance over a period of approximately 12 years. The treasurer's books show that the average daily bank balance lying in the vaults of the 267 state depositories has been \$9,000,000. Every penny of this money has been and is fully covered by personal liability bonds. A cashier has a big responsibility in caring for the funds of his institution. For if any member of the board, stockholders or officers decides to carry off some funds, resulting in failure of the bank, every member of the personnel including the stockholders are liable for just twice the amount of their bonds. This serves as two way protection, against temptation on the part of individuals who would involve so many persons in serious difficulties, and for the state in protecting its funds against loss.

Banks don't suffer all the loss in failures. Surety companies holding bonds for all state funds bankers lost over \$5,000 during the last decade in this state. This loss is a mere trifle compared to what the surety companies make, however. In 1925, they declared

their losses were exceeding their gains, and were granted their request to raise rates from \$2 to \$5 per thousand dollars. The Towner Rating Bureau, New York, fixed all rates for bonding companies at a uniform flat rate of \$5, with the provision that a refund would be made if subscribers held up daily average balances above certain figures. The depositary law was passed sanctioning this procedure and a rate of one-half of one per cent is returned to banks who show a consistent balance for a year over and above 50 per cent of their bond. Failing to do this, as many banks will, the refund privilege is forfeited and that

is where the surety company makes its money.

On behalf of the state, Treasurer W. S. Johnson filed a protest in Washington last April in which he showed that the rates of surety companies were exorbitant in the extreme.

He substantiated his charge by showing figures taken from a 12-year estimation based on the daily average during that time of a \$9,000,000 balance of state funds, indicating that a charge of 28 cents would pay for all the loss suffered by any surety company bonding state funds. Anything over this rate would represent profit which would give a wide

leeway for a big reduction from the \$5 rate.

The companies affected, defended their stand by declaring that the coal slump made bonding precarious business in this state, another example of the old idea outside of West Virginia that its only industry and mainstay is coal mining. In truth, coal represents just 13½ per cent of all business that is done in the state.

[This is a rather severe arraignment of national banks which have failed in West Virginia.—Editor MANUFACTURERS RECORD.]

Seek Improvement of Back-Country Roads

Year-Round Farm-to-Market Roads Seen as Great Measure of Farm Relief and Promise to Reduce Congestion on Main Highways

A NATION-WIDE movement to "get the farmer out of the mud" and relieve traffic congestion on the main, trunk-line highways at the centers of population, through the paving, with low-cost surfaces, of the country's farm-to-market, or back-country roads, will be launched at a conference of farm and motor organization leaders, governors and state and county officials, engineers and contractors, to be held at West Baden Springs, Ind., October 28 to November 1. Approximately 2000 men active in road construction and in advancing the national program for farm and traffic relief will get together for the five days for a thorough discussion of highway improvement by means of low-cost surfacing, and the best means of financing and expediting road construction in the back-country districts on roads that are still dusty, muddy, rutty and more or less unusable during most of the year. One session will be devoted to a thorough discussion of the joint co-operative research investigation now under way by the United States Bureau of Public Roads at Washington and The Asphalt Association of New York, with a view to developing improved low-cost types of pavement construction for the farm-to-market roads.

Conditions Bad on Farm Service Roads

Farm organization officials declare that the deplorable condition of the farm-service roads, which the majority of farmers must use in getting to and from their farms to the paved highways, has become a serious matter. Without dis-

counting the value of the highways connecting the cities, farm organizations feel that it is high time an effective movement were started for paving these roads.

Vast Mileage of Roads Still Unimproved

It is pointed out that approximately 5,000,000 farmers are still living on earth roads, and there are in the United States, 2,484,822 miles of unimproved highways. Of the 3,050,000 miles of highways in the country, only 187,000 miles have high-type surfaces such as asphalt, brick and concrete. Automobile men declare that if all the 24,000,000 automobiles in service today were placed on the paved roads at one time, each car would have only 13.7 yards in which to operate, and that the 40,000 miles of new roads annually constructed are not much more than sufficient to provide parking space for the annual increase in new motor cars and trucks.

Numerous highway officials and engineers of national reputation will present papers on timely and pertinent subjects and participate in the oral discussion which will follow each paper presented. The conference will be under the auspices of The Asphalt Association, New York, Leroy M. Law, of St. Louis, president, and J. E. Pennybacker of New York, secretary and general manager, and The American Association of Asphalt Paving Technologists, W. J. Emmons, Ann Arbor, Mich., president, and C. A. Mullen of Montreal, secretary.

Prominent Road Builders to Discuss Problem

Among the speakers will be Samuel H. Thompson, president of the American Farm Bureau Federation, who will discuss "Farm-to-Market Roads—A Great National Necessity," R. W. Crum, Washington, D. C., director, Highway Advi-

sory Board of the National Research Council, whose subject will be "Research as a Factor in the Low-Cost Road Problem"; John J. Brown, Indianapolis, Ind., director, Indiana Highway Commission; A. H. Hinkle, Indianapolis, Ind., maintenance engineer, Indiana Highway Department, who will discuss "Low-Cost Asphalt Roads by the Retread Method"; Leroy M. Law, of St. Louis, Mo., president of The Asphalt Association; W. J. Emmons, Ann Arbor, Mich., president, American Association of Asphalt Paving Technologists; Prevost Hubbard, New York City, chemical engineer of The Asphalt Association, whose subject will be "Industry Participation in Research and Standardization of Low-Cost Road Improvements"; J. L. Cresap, Tallahassee, Fla., chief engineer, Florida State Highway Department, who will discuss "The Surface-Treated Sand-Clay Roads of Florida"; W. C. Puetow, Madison, Wis., chief engineer, Wisconsin State Highway Department, who will present a paper on "Causes and Control of Frost Action in Shoulders and Subgrades"; J. H. Dingle, city engineer of Charleston, S. C., whose subject will be "Black Base Car-Track Paving in Cities"; John W. Davitt, an engineer and contractor of Jersey City, N. J., who will discuss the subject "Needed Improvements in Paving Plant Equipment and Methods"; and many others.

Numerous other government, state, county and city highway officials, from the United States and Canada, will discuss the latest methods evolved for the construction of low-cost streets and highways. Leaders in the automotive industry and officials of national automobile associations will discuss, from their viewpoint, plans for paving the back country roads so as to relieve traffic congestion on the main highways, especially on holidays and during week-ends.

Opalite Produced in Northwest Arkansas

Mine Opened and Plant Built to Prepare and Distribute Amorphous Silica

Opalite, an amorphous silica, is being produced on an extensive scale in Arkansas, near Rogers, by Corona Silica, Inc. Opening of the mine, the building of four miles of hard surfaced road over which trucks haul material to the mill at Rogers, and the special type of machinery installed, have attracted attention in mining circles.

The company has approximately 2,500,000 tons blocked out by test holes on a tract of 157 acres. The Southwestern Engineering Corporation, Los Angeles, surveyed and checked the deposit, and it is stated that 10,000,000 tons is a conservative estimate of the available tonnage, which is not completely blocked out. The deposit runs from 10 to 85 feet in thickness and the material as it comes from the mine is described as about 99 per cent pure.

The material is mined; if it were removed by power shovels, the lime and oxides would be washed by the rains from the clays above, contaminating the material and increasing the milling and treating cost. The present mining operation is one shaft with a 250-ton hopper. Drifts are 15 feet high and 15 feet wide. Pillars, which are zigzagged, are left to support the roof, providing favorable conditions for mining. There is no water in the deposit. Two drifts are being cut from two sides of the shaft through the hill, for ventilation. Owing to the peculiar characteristics of the material, water must be kept at the point of the drill to prevent the jellification that takes place when the material is drilled in its natural state.

The mill is located on the main line of the Frisco Railroad. Crude material is moved from the mine to the mill by truck, each truck carrying about 11,000 pounds; one truck can transport 50 tons in a 10-hour shift. This form of transportation is stated to have proven eco-

nomical and satisfactory to the company. The plant is electrically operated throughout with an individual drive for each unit. Material is crushed and conveyed to a pebble mill where it is wetted, ground and treated during the grinding process. Drying is accomplished by a Louisville steam dryer, Gayco air separators and Hummer screens, which produce the different mesh products. Opalite is shipped in 50, 80 and 200 pound bags and is said to be 99.70 per cent silica.

Silica, as taken from the bed, is of chalk-like consistency, easily broken or cut; but the composition of the minute particles is so hard that ordinary methods of crushing and reducing the mass are practically ineffective, it is said.

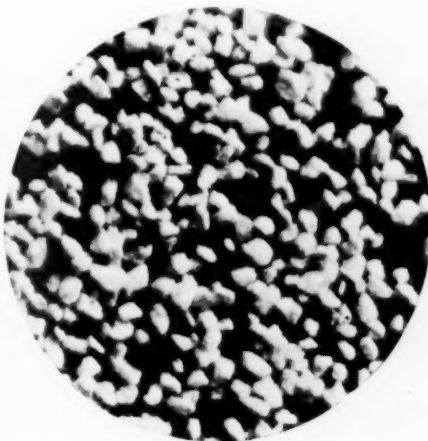
The product is being used in the manufacture of hard rubber, enamel, paints,

poses. More than \$150,000 has been expended on the new project, which is headed by R. C. Jones of Cushing, Okla. O. F. Mayfield, formerly of Tonkawa, Okla., is secretary-treasurer of the organization; H. R. McKnight, first vice-president, and W. G. Bisbee, second vice-president. R. A. Airheart is sales manager. The corporation is a closed one, incorporated under the laws of Delaware for \$750,000 and raised recently to \$1,000,000.

TEXAS HARBOR PROJECTS PLANNED

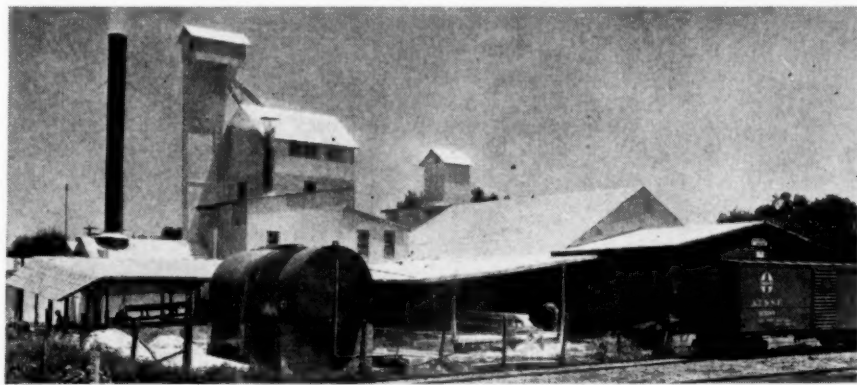
\$1,700,000 Channel for Point Isabel Port Development and \$515,000 Expenditure to Deepen Corpus Christi Harbor

Brownsville, Tex.—The Board of Army Engineers has approved plans for a deep water harbor at Point Isabel, near this city, and for deepening the Corpus Christi harbor, recommendations for both projects to be incorporated in a bill soon to be considered by Congress. Plans for the Point Isabel work were projected by the San Benito-Point Isabel Navigation District and it is understood that the Brownsville Navigation District will dredge a 20-mile channel from the Point Isabel port to Brownsville. The Board of Army Engineers recommended to the Rivers and Harbors Committee of Congress that a channel 18 feet deep and 300 feet wide, protected by jetties, be constructed through Brazos Santiago Pass, with a channel 16 feet deep and 100 feet wide from the Pass to a turning basin, 500 feet square and about 8000 feet southwest of the Point Isabel headland, at an estimated cost of \$1,700,000 and \$150,000 annually for maintenance. It is provided that local interests contribute \$700,000 to the cost and donate to the U. S. Government the north end of Brazos Island from an east and west line 500 feet north of the quarantine station, and a piece of land about 200 feet square southwest of the Point Isabel headland, with assurances that they will supply suitable terminals at Point Isabel. According to Ed Downs, chairman of the navigation committee of the San Benito-Point Isabel Navigation District, a \$500,000 bond issue will be sold at once to meet the government requirements for the establishment of a port at Point Isabel. The Rivers and Harbors Board has acted favorably on recommendations by the Board of Army Engineers contemplating the deepening of Corpus Christi harbor from 25 to 30 feet at a cost of \$515,000.



300-Mesh Particle of Silica,
Magnified 200 Times

electrical insulators and even cosmetics. Experiments are being conducted in the making of silica brick. Coarser silica is used in the manufacture of composition roofing, creating an outlet for the product of lesser value and not so pure as that which is required for other pur-



Plant of Corona Silica, Inc., at Rogers, Arkansas



View of Orlando's Airport, Central Florida's First Fully-Equipped Aviation Field

Comprehensive Air Policy for Florida

State Chamber of Commerce Calls Conference to Consider Steps to Capitalize on State's Natural Advantages for Aeronautical Developments and to Provide Facilities Essential to Foster Industry

A state-wide aviation conference, sponsored by the Florida State Chamber of Commerce, Jacksonville, is to be held in Miami October 12, for the purpose of discussing the formulation of a definite air policy for the state. State and national leaders in aviation development will attend, as will representatives of communities throughout the state.

The Chamber of Commerce is endeavoring to direct the state's future progress through cooperative efforts to utilize the natural advantages for aviation development. While airports recently completed, now under way or projected in every section of the state are such as to place Florida in the front rank of air-minded states, the Chamber of Commerce believes that in the future development of air transportation lies one of the greatest opportunities for Florida that has yet been presented, an opportunity not only to increase its industrial and commercial background but to create a new type of Florida visitor—the air-tourist. It is pointed out that if the progressive steps of all previous modes of transportation are to be followed that we are but a short step from the time when private ownership of the airplane will come into being—in fact, in a limited way it is with us today. Visualizing the very general use of air transportation as a mode of private travel there is much to be done toward building the foundation for tomorrow's progress, and there are numerous definite needs that must be filled if Florida is to participate in this forecasted expansion of commercial aviation and before the air-tourist business can be made an asset to the

state, say the promoters of the conference, who declare that in order to develop this potential air business the state must adopt a constructive and systematic policy embodying the following:

- 1—Encourage the establishment of adequate landing fields;
- 2—See that towns and cities have proper guide marks and signs;
- 3—Adopt suitable legislation; and
- 4—Develop an adequate air-travel tourists service.

To capitalize upon its suitability and adaptability as an ideal flying state Florida has but a minimum of additional appeal to put forth, believe the sponsors of the air conference, who commend to the air-minded public the general climatic

conditions which permit aviation activity to continue throughout the year with a minimum of hazards in the operation of commercial lines on regular schedules. Fog, the most difficult obstacle met by the air pilot, prevails but from 12 to 14 days in the year and even then such conditions are not general, a survey discloses, as heavy fogs are rare in the southern part of the state, while in the extreme northern and western sections fog occurs only spasmodically during the period from November to March.

Again, the average wind velocity in the state is said to be approximately 6.6 miles an hour while the temperature makes comfortable flying possible the year round. The topography is such as

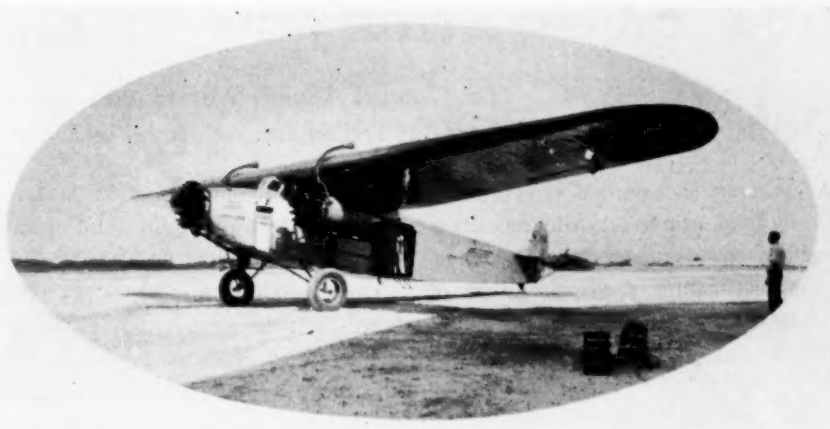


Combination Airport at St. Petersburg, for Both Water and Land Aircraft
A Zeppelin mooring mast is to be erected here for one of the Goodyear blimps, which will winter in Florida

to permit the establishment of landing fields of all types at a minimum of expense, while the numerous lakes that abound, together with the long coast line, facilitate the use of water aircraft, and as a result numerous Florida cities have provided combination landing facilities, necessary with the increasing use of the amphibian type of aircraft.

At present Miami has the one airplane manufacturing plant in the state, but efforts are being put forth to attract other like industries because of the ample sunlight, freedom from cold weather and the fact that testing can be conducted the year round. Already in the enactment of aviation legislation Florida ranks high among the states of the country, 11 of 29 bills bearing on aeronautics and air transportation introduced at the 1928-29 session of the legislature having been enacted, and of the number only two were defeated; the remaining 16 are still to be acted upon.

Florida now has a total of 621 miles of



Type of Plane Operated by the Pan-American Airways, Between Miami, Nassau, San Juan, P. R., Cristobal, C. Z., and South America

ida, touching at Jacksonville, St. Augustine, Miami and Tampa.

The station established by the United States Government at the former Pensa-

the most of by promptly giving thought to the problems of aviation, and that now is the time for the state to provide adequate facilities for air travel. While the larger cities of the state have spent and are spending substantial sums in the building of airports and equipping them, the need is emphasized for the establishment of fields in the smaller communities because of the important part they play in the scheme of aviation development; for these auxiliary fields stretched out between the main terminals assure a margin of safety otherwise lacking.



U. S. Navy Photo

U. S. Naval Air Station, Pensacola, Showing Primary Seaplane Squadron Beach, Observation Tower and Station Field

airway routes. The mail planes of the Pitcairn Company cover 336 miles from Jacksonville to Miami and 129 miles from Daytona Beach to Tampa. The Pan-American lines travel 156 miles from Miami to Key West, where they disperse to Cuba, Nassau, and South and Central American points. Florida's first permanent air line was established by the Pan-American Airways, Inc., October 28, 1927, between Miami and Havana, Cuba. On December 1, 1928, the Pitcairn Aviation, Inc., inaugurated its Miami-Atlanta mail line, supplemented April 1, 1929, by the Daytona Beach-Orlando-Tampa line. Three additional lines have been added to the operations of the Pan-American Airways, Inc., this year, the links extending to Nassau, to San Juan, Porto Rico, and Cristobal, C. Z. On September 21 the inaugural flight from New York City of the Eastern Air Express, a subsidiary of the General Aero Corp., reached Flor-

cola Navy Yard site in 1913 as the permanent location for the training of naval personnel in aeronautics has been a great stimulus to aviation in Florida and is now classed as one of the most modern air training stations in the country; an average of 300 students, including officers, enlisted men, and naval reserves are trained at the station. In addition, the program requires 76 naval aviators, 10 naval aviation pilots, together with 750 enlisted men for upkeep of airplanes and training equipment, and 750 civilians are employed, bringing the total of the personnel at the base to about 1500.

In a recapitulation of the facts recited relative to the marked progress of aeronautical development in Florida, the State Chamber of Commerce, while appreciating the great advantage of the state's near proximity to the great eastern centers of population, declares it is imperative that this advantage be made

\$450,000 Baltimore Store

Mrs. Julia Wilms Sloan, Baltimore, awarded contract to the M. A. Long Company, local builders, to erect a 3-story store building at Howard and Saratoga streets, Baltimore, to cost about \$450,000. The structure will be 40 by 120 feet, of limestone construction and is expected to be completed by March 1, 1930. Smith & May, Baltimore, are the architects.

\$40,000,000 Bank Merger

Raleigh, N. C.—Effective September 30, the consolidation is announced of six of North Carolina's oldest banks with offices in eight cities. The new institution will be known as the North Carolina Bank and Trust Company, its unit offices to include the following: Wilmington, Murchison National Bank; Raleigh, Citizens National Bank; Greensboro, American National Bank and Trust Company and Atlantic Bank and Trust Company; Rocky Mount, First National Bank and the Rocky Mount Savings and Trust Company; High Point, Salisbury, Burlington and Spencer, Atlantic Bank and Trust Company. Resources of the consolidated bank are estimated at more than \$40,000,000.

\$18,000,000 Trinity River Project Under Way

To Control Flood Waters and Reclaim 10,000 Acres at Dallas for Industrial and Business Sites

A construction program probably unlike any before undertaken by any other American city is under way at Dallas, the project calling for expenditure of \$18,000,000 for controlling the flood waters of the Trinity River and reclamation of about 10,000 acres suitable for business, warehouse, and manufacturing sites, the property lying directly between Dallas and Oak Cliff, a suburb, and joining these two cities with thoroughfares, boulevards and traffic ways. This ambitious plan calls for expenditure by the City of Dallas of \$3,200,000; for \$3,119,000 by the County of Dallas; \$2,000,000 for tracks and structures by the railway lines entering the city; \$1,000,000 by interurban and street railways and other public utilities; \$2,000,000 for laying out streets, sewer mains, water lines, paving, sidewalks, ornamental lighting and general beautification by property owners within the district, and \$6,500,000 for

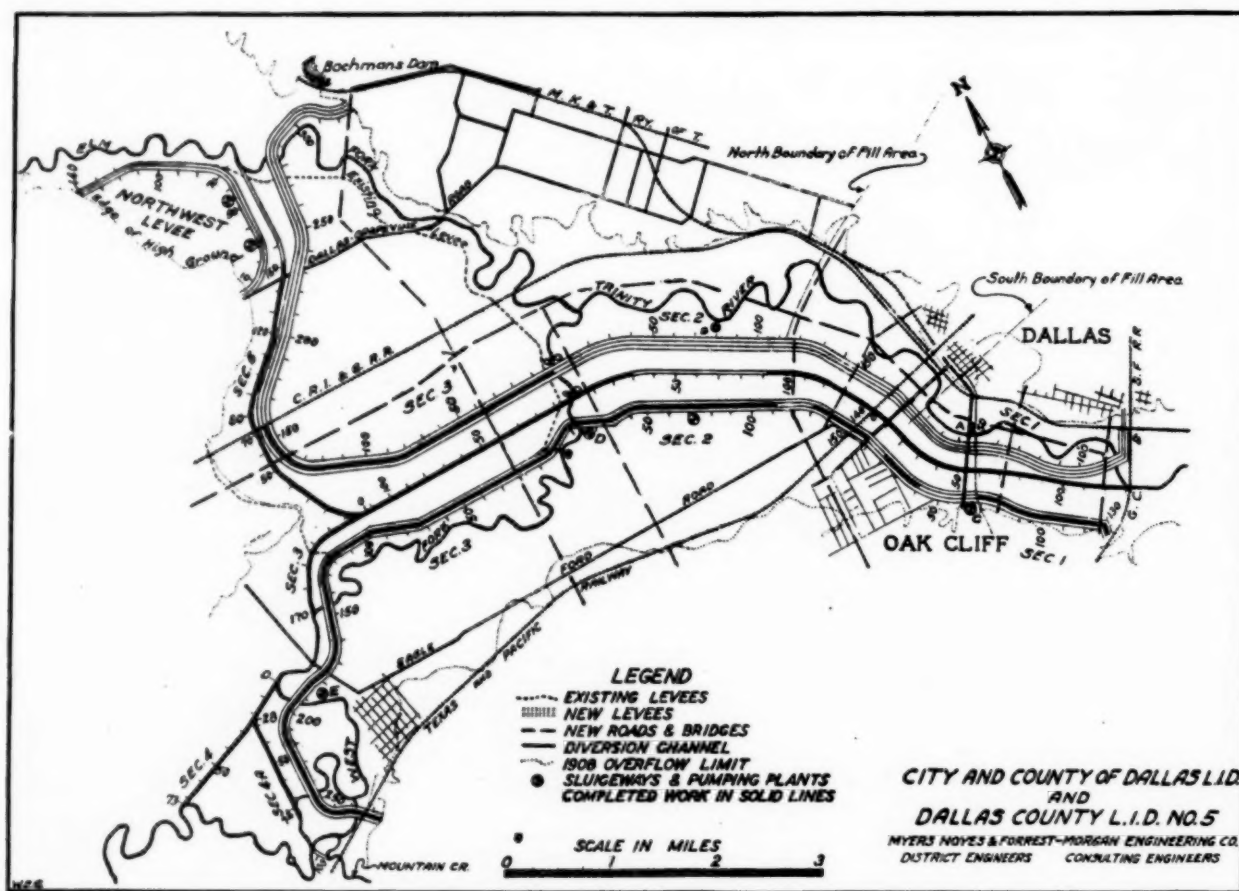
reclamation of land including the levees, channels, hydraulic fill and general equipment coincident with the project.

Land in the flood plane of the Trinity River is to be protected from overflow and rendered available for economic development as industrial property. The continued rapid growth of Dallas has shown the necessity for close-in industrial lands. Need for increased traffic facilities across the Trinity Valley, between the east and west sections of the city, has brought about a demand for a program to permit construction of traffic ways above overflows and without the excessive cost necessary in the past due to the great length of high level bridges. The existence of thousands of acres of unprotected land within the limits of the built-up section of the city has long been considered an economic waste.

The Trinity River has a drainage area above Dallas of about 6000 square miles

and is subject to frequent floods, overflowing the lower portion of the bottom lands a number of times each year, with maximum floods occurring at about 18-year intervals, maximum flood flow reaching about 250,000 c. f. s. Total length of levees in the district is 25 miles with an average height of 30 feet, crowned width 6 feet, with side slopes of $2\frac{1}{2}$:1. The project comprises 17 miles of new channel, practically none of the old channel being used within the confines of the district. The floodway between the levees varies from 2000 feet to 3000 feet and maximum shifting of the channel is about $3\frac{1}{2}$ miles. Flood protection works are designed to carry about $2\frac{1}{2}$ times the maximum known flood.

Work is being financed by the issuance of \$6,500,000 bonds for the construction of the levees, channels, pumping plants, etc. The election was called, following lengthy hearings and the adoption of a plan of reclamation which was submitted to the State Reclamation Engineer along with estimates on the cost of the work. The bonds carried by a majority of 4



General Plan of Flood Control Project at Dallas, Texas



A Typical Section of Levee

15-foot landside borrow pit at left. Levee is 30 feet high with 4-foot crown. Riverside berm and shallow riverside pit at right

to 1, taxpayers residing within the district being allowed to vote. Costs of the work are assessed against the property within the district on a basis of benefits to each individual piece of property and vary from \$7500 an acre to \$125 an acre, payable over a 30-year bonding period, the bonds being on a basis of 5½ per cent.

Contracts for the entire construction work in the district have been awarded to the Trinity Farm Construction Co., for a completed job under a series of 15 contracts. Under the Texas law, contracts for reclamation projects cannot be awarded unless the completed job is covered by these contracts; the sum total must be within the amount of funds available and bonds in the sum of 100 per cent must be given, guaranteeing completion of the work.

Levees are being constructed with a shrinkage allowance of 25 per cent, fill material being taken in approximately equal portions from the land and floodway sides. Landside berm is 25 feet and the riverside berm is 100 feet. The riverside borrow pit has a slope of 3:1 beyond the edge of the berm. All levees and berms are to be completely sodded with Bermuda tufts and maintained until a full growth of sod is obtained. Where pervious material is encountered under the levees, a muck ditch is excavated and backfilled with clay.

The diversion channel is being excavated to a minimum section, material being deposited in spoil banks along the channel, the idea being that this diversion channel will be eroded to a maximum section within a few months after it is put into use, and results on a stretch of several miles of this channel bear out the anticipated erosion.

Pumping plants are provided at four different points where interior drainage may be forced under the embankment by pumps at times of high water in the floodway. Pumps vary in size from Plant A, equipped with two 18-inch pumps, to Plant B equipped with four 54-inch pumps. Two concrete sluiceways, equipped with sluice gates, are provided at strategic points.

The portion of the district lying immediately adjacent to the main business district of the city is to receive extra development in the way of heavy filling against the levee slopes and the general grading of this area to a system of street grades, it being assumed that this particular portion will lend itself to a more extensive and expensive development than other sections of the area. Development of the plan of reclamation has necessitated cooperation between the district and the various railroads and utilities affected. The railroads are expending large sums of money to make the tracks conform to the plans of the district. The Chicago, Rock Island and Gulf Railroad is spending \$350,000 to raise its tracks and put in a new bridge, and the Texas & Pacific Railroad is expending about \$750,000 in track changes, etc. Power companies, gas companies, telephone, telegraph and oil pipe line companies, are all making numerous changes at their own expense.

When the levee district voted bonds for reclaiming this area, a bond issue carried in Dallas County for bridges and highways provided for the expenditure of about \$3,500,000 on bridges and roads directly affecting the district. The county has already awarded contracts for four reinforced concrete viaducts, spanning the floodway between the business

section of the city and Oak Cliff, a suburb, and in the near future will award contracts for five other crossings of the steel viaduct type. The City of Dallas in its \$23,000,000 bond issue, voted about the same time, provided for an expenditure of \$3,000,000 for viaduct approaches, underpasses, carrying traffic ways under the railway tracks, for street widening on arteries leading into the district, sanitary and storm sewers, water mains, etc.

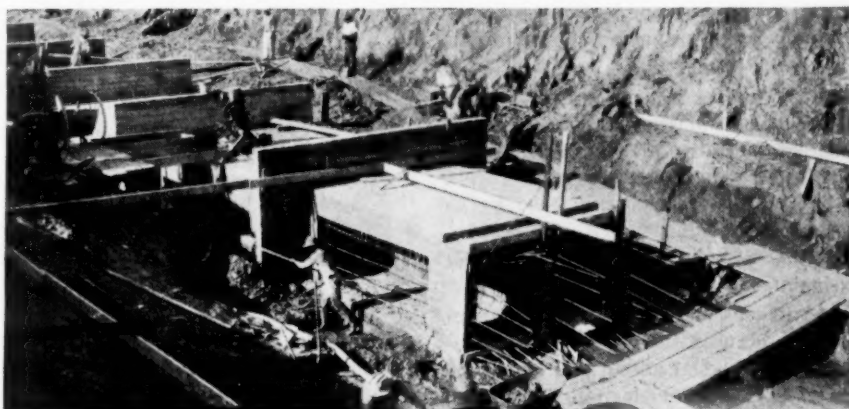
The contractor has 10 dragline machines on the project, of which four are 5-yard Monighans and five are 3-yard Monighan walking machines. A portion of the work has been placed by 3-yard and 5-yard trucks. Construction work began on July 24, 1928, and contract calls for completion in 700 working days.

The project involves quantities as follows: Total yardage in levees, 9,893,500; channel excavation, 2,320,000 yards; hydraulic fill work, 4,238,000 yards; muck ditch excavation, 654,000 yards.

Prices are as follows: Earth embankment in levees, 20 cents per cubic yard; muck ditch and channel excavation, 12 cents per cubic yard; hydraulic fill, 30 cents per cubic yard; sodding, \$500 per mile.

Complete plans have been adopted for traffic ways, streets and railway facilities for the reclaimed areas. Industries are already being established in the western section of the district and the Texas & Pacific Railroad is constructing tracks for new concerns locating in the area. The other railroads entering the city are actively planning to enter into various portions of the district.

The district organization is under a Board of Supervisors, consisting of John J. Simmons, chairman, L. A. Stemmons and W. J. Wyatt. The board serves without compensation. Myers, Noyes & Forrest, consulting engineers, Dallas, are in charge of the work, with the Morgan Engineering Co., Memphis, Tenn., as consulting engineers.



Sluiceway Pumping Plant

Discharge pipe from the pumps will enter at the opening in the side wall, permitting the sluiceway to act as a gravity drain or pressure outlet

Reducing Taxes in Florida

By F. JACK LACEY, Tallahassee.

Florida taxes mounted with the boom hysteria. Due to the many expenditures for roads, bridges, schools, tourist accommodations and other necessities the rate of taxation and assessed valuation reached high levels during the past several years. But the "wheel" is turning downward to a point where these taxes will be lower. In fact, the back-to-normal-level movement is more than half complete, as is evidenced in the campaign by county commissioners to lower taxes throughout the state. Martin county can today boast of the lowest rate since before the boom. Other counties have adopted 1929 budgets in which the rate is lower, as well as having lower valuations.

In addition to this proof that the state is fast arriving at an economical standing, and at the same time paying for luxuries of the boom which are enjoyed by residents and visitors alike, there is the fact that in the state administration itself, a saving of more than \$1,500,000 yearly is being effected through the business-like policies of Governor Doyle E. Carlton. This progressive undertaking is being continued. The present administration has been in office but eight months and additional savings of considerable amounts are anticipated.

In other activities, the state is bringing new money into the treasury. Laws were enacted at the 1929 session which not only strengthened the position of the state on collections, and protected the owners in regard to assessed values, but they bring in new revenues not added to real estate; that classification was not increased.

Protection to Investors

Much has been said about Florida's high rate of interest, its policies in municipal improvements, and its court protection to an investor. The following facts concerning protection are set forth to guide investors in this state:

A law, created by judicial precedence and written into the statutes in 1927, which gives to an investor full protection in forceful collection of his just claims, has always been a part of the Florida legal system. There have been exceptions to the rule, but only as found justifiable by the courts, cases left over for settlement after the boom, instances where a plaintiff had already received full amount of the real value of the property. No one questions that land sold at extreme prices during this period, and one can readily see the condition in which investors or speculators would have found themselves had they been

called on by the courts to pay prices out of all reason. Where property had been deeded back, the courts have not allowed deficiency decrees. Other than these exceptions the investor in Florida will have full protection.

Parties assuming obligation when they purchase are subject to suit as is the case in every state.

City streets may be paved when proper notice of intention has been published and time set and advertised to hear complaints. When none are entered, the city may let contracts and place a portion of the costs, usually one-third, on the owners of abutting property. Contrary to opinion expressed in

some circles, one cannot vote on a public improvement project unless he be a property owner.

The prospective investor will therefore find in Florida a state in which good rates of interest are paid; where courts protect in a manner which insures against loss; where taxes are being lowered; where attention is paid to development; where government is on a business basis, and where actual values probably will never be lower than at the present time.

Dye House and Finishing Plant

Chattanooga, Tenn.—A large dye house and finishing plant will soon be built here by the Everwear Hosiery Co., Milwaukee, Wis., according to C. H. Bond, vice-president and general manager, machinery for the dye house having already been ordered.

Steam-Electric Plant for El Paso

A new steam-electric power station is being built for the El Paso Electric Company, a subsidiary of Engineers Public Service Company, Inc., on a site about 4½ miles northwest of El Paso, Texas. The building consists of a boiler room, turbine room and auxiliary bay of steel frame construction with concrete floors and roof, and brick walls with steel sash.

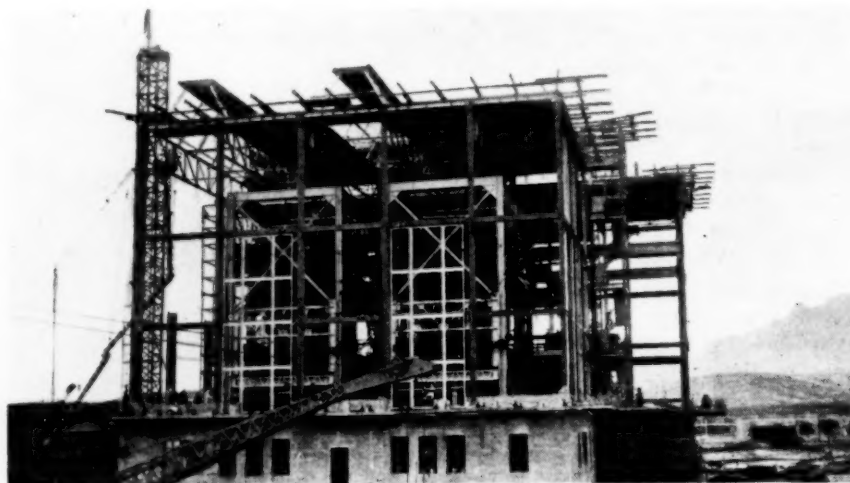
Principal equipment to be installed consists of 2—1525 horsepower boilers, 1—25,000 kilowatt turbine generator, 1—2000 kilowatt auxiliary turbine generator and 1—15,000 turbine generator which is to be relocated from the present station in El Paso. This 15,000 kilowatt unit is to be changed to increase its

capacity to about 22,000 kilowatts and to make it suitable for 400 pound operation.

A 50,000 kva. outdoor step-up substation is to be built at the new power station.

Firms engaged in construction work and those supplying principal items of equipment and materials included the following:

Engineers and builders—Stone & Webster Engineering Corporation, Boston
Steel—Virginia Bridge & Iron Co., Roanoke
Sash—The William Bayley Co., Springfield, Ohio
Brick stacks—Alphons Custodis Chimney Construction Co., New York
Turbine generator and switchboards—Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.
Boilers—Babcock & Wilcox Co., New York
Condensers—Ingersoll-Rand Co., New York
Crane—Niles-Bement-Pond Co., New York.



Boiler Room of the New Station

Flexible Tariff Plan Is Opposed

By WILBUR F. WAKEMAN, Former U. S. Appraiser of Merchandise, District of New York.

Number 29.

PRESIDENT HOOVER has spoken, and desires continuation of a flexible tariff. The Senate Finance Committee, having receded from recommendations of the Hawley Bill in great extensions of authority under a flexible tariff, we revert to the question: Shall the present law be continued?

The existing flexible tariff provides that the President may increase or decrease any tariff duty by 50 per cent on any imported merchandise after investigation and report by the United States Tariff Commission of the costs of production abroad and at home.

The flexible tariff should not have been adopted in 1922, in my judgment, and should not be continued. Tariff making belongs to the Congress, and tariff making by Congress is largely an open book, whereas tariff making by the Executive and Tariff Commission is largely of secret procedure, thus hanging a Sword of Damocles over American industry constantly. An unscrupulous executive could make an American Mussolini of himself under the present law.

It is true that some good results have come from the present law by tariff increases in farm products, but on the other hand the American sugar industry would have disappeared if the original findings of the U. S. Tariff Commission in 1924 had been followed by President Coolidge. There were other items of the same character during the then hectic conditions prevailing.

President Hoover refers to the long periods between general tariff revisions as an argument for authority under flexible tariff. There is no reason why the Ways and Means Committee of the House of Representatives should not be on duty continuously in the preparation of any changes necessary in the tariff, but the fact is, that the subject is put off until some emergency arises or until the election demands changes. The flexible tariff is a mixture of legislative and executive functions and should not prevail. It is contrary to all tariff legislation prior to 1922.

Tariff Conditions of 1929 and 1897 Similar

"We must sacrifice everything to the quick passage of a tariff bill. Few realize how many industries are on the verge of collapse, how many are hanging on by the eye-lids," said Hon. Cornelius N. Bliss, Secretary of the Interior, in May, 1897, in the course of a conversation regarding the Dingley tariff

bill then under consideration. Mr. Bliss was very close to President McKinley and voiced his convictions. The bill was signed July 24, 1897, and remained the law of the land (nearly 13 years) longer than any other tariff in the history of the nation. The law was slightly modified by the Act of 1909 which continued to 1913. Hence we had a continuous protection period of nearly 16 years, which proved to be a period of the most substantial growth in all lines of industry in our history.

The foundation and stability secured through these 16 years of steady development were not entirely wrecked by the low tariff of 1913, because the World War created an artificial stimulus; but disastrous results came quick and fast after the armistice, and conditions were tidied over by the emergency tariff of 1921. Untold disaster to industry would have prevailed without this aid, and conditions of that time are the best proof that our industrials and producers cannot endure without the benefits of tariff protection. Today we are working under the tariff of 1922 and its present revision has been made necessary because it was an incomplete tariff and is filled with free trade spots, tariff exceptions, low schedules of duties and weak administrative provisions.

In spite of an apparent prosperity due to new luxurious developments such as the automobile, and increased investment profits, future industrial and commercial basic conditions are nearing those of 1897, primarily because of the lack of an adequate protective tariff law, and secondarily, because of internationalism, installment buying, chain stores and speculation. Proof of the inadequacy of the present tariff is found in the vast investments by Americans in manufacturing in foreign countries. With employment general we have the greatest purchasing market in the world, and if duties were really protective in every schedule, American money would be satisfied to stay at home. In a recent statement by Hon. James Couzens, U. S. Senator, Michigan, member of the Finance Committee, who is not rated as a strong protectionist, he said, in part:

"We not only must have an adequate tariff to protect the American workers against foreign capital and workers, but we must have a tariff to protect American workers against our own capitalists who are investing abroad and taking advantage of cheap foreign labor."

It would be interesting and instructive

if we could have a published census of the American capital employed in factories and mines in foreign countries. It would be interesting to know the difference in the cost of production of a given article by cheap foreign labor and by well-paid American labor, especially if the commodity were intended for export to the United States. The internationalists are influential, very influential in the money marts and in Washington, but if we could have a complete publication of the expatriated American money invested in producing goods abroad for competition with American labor employed by American money at home, public sentiment would soon tell Congress what to do and in no uncertain terms.

Perhaps the present Senate inquiry into income tax returns might be extended to include all foreign investments in production competitive with American production. It is easy to move money by wire or cable, it can go anywhere and especially where it can have a warship to assist in collections. It is difficult to move the working man, his home, the shop or factory. It is impossible to move the farm or mine. Hence money in the hands of the insatiable man who is ever seeking to make more money must have a brake. A fully adequate protective tariff is just this brake and if applied will bring back home in a hurry what is left of this moving money.

The secondary influences creating the present disquieting outlook; internationalism, installment buying, chain stores and speculation, suggest a vast field of explanation, and these factors have been frequently referred to and developed by the MANUFACTURERS RECORD; they have prevailed under what might be called quasi-protection, but they are unhealthy developments and not substantial nor permanent. All these elements, however, have created an unsettling situation which is similar to that in 1897. It is expected that history will not be permitted to repeat itself in recording a period of failures and hard times, and the Senate will be largely responsible to prevent this by its action on the bill before it.

Ananias Club and the Tariff

The Ananias Club has added to the veterans of its membership a large number of juniors who are co-operating with the others in discussion of the Hawley-Smoot bill. Considering the miscellany of reliable and unreliable information,

the juggling of facts presented to the Ways and Means Committee, H. R., and the Finance Committee, U. S. S., many weak points and neglected opportunities have been disclosed in the framing of this tariff as is always the case in the preparing of a new tariff bill. But the attacks of the Ananias Club are not directed at these apparent weaknesses, suggested corrections or improvements, rather are their attacks along the lines of downright misrepresentation and falsification or distortion of facts. Misrepresentation of the protection features of the measure by falsification, and a pyramiding of prices to the consumer by retailers and department stores based upon alleged increased rates of duty, all are a popular medium of bringing a new tariff into disfavor of the public.

This form of attack upon a new tariff is quite at variance with what experience has shown to be the result of tariff duties adequate to protect industry. No better illustration of this can be found than in the matter of cotton hosiery. Notwithstanding a duty of 50 per cent on foreign hose, good hose for men and women can be bought for as low as twenty cents a pair. Yet the Ananias Club has pyramided this duty into millions of dollars burden on the American people, when as a fact ordinary cotton hose is cheaper in the United States than in any other country in the world. And how has this been attained? With continuous protection to the hosiery industry and the development of it thereby. Then, we make hosiery at home from cotton grown at home. Why has this pyramiding of high prices been resorted to instead of the reversal showing the descent of prices and conforming to facts? Why not show how much has been saved to the American people in this home production and consumption of native raw materials? This question emphasizes the thought of Abraham Lincoln in his suggestion that when an American paid \$20 for iron rails to an English manufacturer, America had the iron and England had the \$20. But when he paid \$20 for the iron to an American manufacturer, America had both the iron and the \$20.

Wholesale misrepresentation of the protective features of the pending tariff bill, especially through the metropolitan press is having its bad effect on the minds of people throughout the country, and this misrepresentation should lead to loss of confidence in the editorial and special writer's columns by their readers. Matter in all newspapers may be classified as follows: First, editorial and special writers who follow the editorial policy; and second, news of every description.

Recently, in discussing the requests of agriculture for adequate protective duties

on oils, etc., the New York World claimed that this was due to a desire to keep the Southern farmer out of dairying. Editorially, the World said:

"The dairymen want the Southern farmer to keep out of the milk business, and they reason that if he can get the market for the raw material for vegetable oils and oleomargarine he will be less inclined to diversification and leave the dairying business largely to the Northern farmers."

That the dairying business of the South Atlantic, east South Central and South Central states has increased by leaps and bounds is not mentioned. In those sections in 1910 we had 5,686,000 dairy cows and in 1928 we had 12,651,000, an increase of nearly 7,000,000. Yet, some one wants to discriminate against such an industry, thinks the World.

Note what the special writer who follows up the editor says. The World is publishing analyses of the pending tariff bill by Wm. J. Murphy, Jr., and in a part of his analysis, under the headline, "Rise in textile duties hits pockets of masses," he discusses cotton blankets, and the "enormous increase of duty" by reason of the Senate Finance Committee amendment. Then this comment:

"This amendment provides that in no case shall the duty be less than 16½ cents a pound. According to arguments presented during the hearings this amendment will practically stop the importation of the cheaper grade of blankets purchased chiefly by the poor, thereby enabling the domestic manufacturer to sell the same blanket or an inferior one at a considerably higher price than is paid now."

The duty proposed is 35 per cent ad valorem on the foreign value of cotton blankets, and that they shall pay not less than 16½ cents a pound. The reason for this minimum? If the World will consult its own files (news, not editorial) it will find accounts of big undervaluations of cotton blankets in the last two or three years, which should have put certain "honest" merchants in jail. The Finance Committee evidently wished to have a duty collected that would at least come close to the value of the raw American cotton used in the imported blanket. Nor does the World comment on the price of cotton, quoted in the same issue as its tariff analysis, as being 18 cents a pound, which proves the soundness of the rate they criticize.

Turning to the news department, we have more reliability. In the real estate section of the issue of September 1 is printed a remarkable article, entitled, "Protection Supports Living Standard." The article is based on an interview with Isidor Roth, president of the Roth Realty Company of New York, and breathes Americanism throughout. Mr. Roth claims that the American standard of living attained through protection neces-

sitates more homes and that homes require land. Hence the demand and supply. After paying his compliments to Professor Gregory's attack on protection, at Williamstown, he says:

"The good will of the world is extremely desirable. On the other hand, self-defense has no regard for good will. The theory of the high tariff is that of defense of the home industries. In many instances, there is no doubt that the high tariff is an absolute necessity, at least under present conditions. The brick industry is a striking example. Wages paid to employes in brick-yards in the last few years have been \$5 to \$6 per day. Wages paid in Belgian brick-yards and brick-yards in other countries have been about \$1 per day. Since 1925, when this country imported about 44,000,000 bricks from Belgium, the importation from that country alone has increased to 78,000,000 bricks. More than 50 per cent of the brick-yards in New York state and the state of New Jersey have been closed."

Thus we find in the same newspaper, and typifying the metropolitan press, misleading editorial opinions on the tariff, with occasional lights of truth in its news columns.

\$1,000,000 POWER LINE UNDER WAY

Tennessee Electric Power Company to
Utilize Power From Muscle
Shoals Plants

Nashville, Tenn.—A transmission line connection with the Muscle Shoals power plants is expected to be effected within six months by the Tennessee Electric Power Company, Chattanooga, to permit the use in Tennessee, especially in the growing industrial center of Nashville, of much of the Muscle Shoals power not heretofore utilized. The company believes that a line from Nashville to connect with the system of the Alabama Power Company, corresponding with a connection from Chattanooga with the system of the Georgia Power Co. on the east, will insure dependable service, even though the Muscle Shoals line is not used to absorb a portion of the Muscle Shoals power. The western connection it is now building to Muscle Shoals will establish a direct connection to the Alabama Power system, including steam plants on the Warrior River in Alabama, which will provide an additional power supply during periods of drought, breakdown and other emergencies. Within the past year a power line has been constructed as far south as Centerville, Tenn., and it is expected this line will be extended through Wayne or Lawrence County to the Muscle Shoals plant. The line is estimated to cost \$1,000,000.

Survey of Mississippi Basin Indicates Large Possibilities of Storage for Flood Control

By RICHARD WOODS EDMONDS.

A comprehensive preliminary survey of the flood problem of the entire Mississippi basin has been made, and a report submitted by the Research Service, Inc., a firm of consulting engineers in Washington, for the National Flood Commission. This survey was authorized because of the general dissatisfaction with the Jadwin plan and the conviction on the part of the National Flood Commission that the Jadwin plan was prepared in frantic haste and could not be sound; and that it proposed to waste what should be conserved as an immense natural resource.

The report rendered by the Research Service, Inc., covers a number of factors that may be expected to contribute to the ultimate conservation and protection of the Mississippi River basin. It goes into floodways and by-passes in the lower valley, reservoirs and the influence of forests, effects upon navigation and power development. The summary prepared to accompany the report follows, in part:

"Working with nature' is the fundamental principle on which this plan for the control, conservation and utilization of flood waters of the Mississippi basin is based. The natural resources of the basin should be utilized to keep the flood stages down, and to eliminate the flood crests, especially in the lower Mississippi. In the development of this plan, all elements of the entire water-shed from the headwaters near the Canadian border to the outlets of the main river in the Gulf of Mexico are comprehended. Hence the plan considers the physiographic features, such as forests and soil cultivation, and includes the various factors of improved levees, and existing channels, source stream control, diversion channels and emergency spillway outlets.

"Source stream control involves systems of reservoirs in the basins of the Ohio, Missouri, White, Arkansas and Red rivers. This preliminary investigation indicates that available, feasible sites will provide for the storage of 10,000,000 acre-feet on the Ohio River and its tributaries, of 13,000,000 acre-feet on the Missouri River, of 3,900,000 acre-feet on the upper Mississippi River, of 34,000,000 acre-feet in the Arkansas-White watershed, and of 6,460,000 acre-feet on the Red River basin. Utilization of these combined systems of improving reservoirs will make it possible to reduce flood stages, under conditions of a possible maximum flood, 11 feet at Cairo, Ill., 15 feet at Arkansas City, and 17 feet at the latitude of Old River, Louisiana."*

*Had such control been effective in 1927 there would have been no flood damage.—Editor's note.

The report recommends a "combined diversion channel and series of storage basins in the lowest swamp or marshlands of the St. Francis, Tensas and Atchafalaya basins west of the main river and in the Yazoo basin east of the river," and "an emergency flood outlet for bank-full stages in the lower Mississippi * * * at some point above New Orleans (such as Bonnet Carre) with a view to diverting surplus flood waters through a short floodway, and into Lake Pontchartrain." Further:

"The execution of this project will involve an expenditure of about \$1,000,000,000 and require a period of from 10 to 15 years. The estimated benefits, including protection of life and property, the enhancement of the value of agricultural lands, and the income from power development and the utilization of the regulated channels for navigation, would justify the initial cost of the entire project, and during the next generation bring enduring welfare and prosperity to this great section of the United States."

Recommendations made in the report state that the Federal Government should be entirely responsible for the flood work on the Mississippi River below Cairo, but that on the tributaries, where local benefits of flood protection will be large, work should be done, and expense shared, under a National Flood Commission to be authorized by Congress and appointed by the President. The basis of such co-operative work is already provided, it is pointed out, by the program for Federal aid to highways.

Thus, while the comprehensive plan is estimated to cost \$1,000,000,000 in round figures as compared with the \$325,000,000 put forth by General Jadwin as an estimate of the cost of his plan, it should be borne in mind that this item in the Jadwin plan contemplated no expenditure whatever for protection of tributaries, and that it omitted payments for rights of way, flowage rights and other damages to personal property, with the result that, if it were carried out, and in view of court decisions and of suits now in the courts, this cost would be something like doubled. By contrast, the figure given in the Research Service report includes large expenditures for protection to a few thousand miles of tributaries in addition to the territory contemplated in the Jadwin plan; and the recommendations of the Research Service include provision for substantial payments for local benefits by individual states, thus taking a portion of the total expense off the Fed-

eral Government. It seems likely, therefore, that the cost to the Federal Government of the Research Service plan would be no greater than the ultimate cost of the Jadwin plan, while the benefits would be far greater.

The facts developed by this survey, and the recommendations contained in the plan, provide a striking corroboration of an article I wrote after an independent study of the problem over two years ago, and published in the MANUFACTURERS RECORD for August 4, 1927, under the caption, "To Save the Mississippi Valley We Must Save the Tributaries."

In that article the following statement appears:

"Levees we must have—the largest and strongest feasible. Spillways we may have. Reforestation and terracing are being adopted here and there as economical methods of timber production and farming, independently of flood control, and may be stimulated as auxiliary flood-control measures wherever individual farmers and timbermen can be convinced of their value to them. But as a means to prevent flood damage on the tributaries, and to reduce flood crests on the Mississippi to a height that levees and other works can carry without danger, there is no substitute for reservoirs."

And again, approaching my conclusion and summing up storage possibilities, I said:

"This fact raises a pregnant question as to what would have been the result had all feasible reservoirs, known and as yet unknown, been in operation. Certainly the strain on all levees would have been far less. Conceivably the flood might have been reduced to a volume the levees could have held with entire safety throughout their length."

On this point the report of the Research Service goes much further, stating storage facilities listed by it would "make it possible to reduce flood stages, under conditions of a possible maximum flood, 11 feet at Cairo, Ill.; 15 feet at Arkansas City, Ark.; and 17 feet at the latitude of Old River, Louisiana."

Such a reduction, had it been in effect in 1927, would have prevented all damage.

While this report is not intended to present a detailed plan, its conclusions are sufficiently striking to justify all the opposition the Jadwin plan has encountered, and to cause delay in beginning its controversial features at least until adequate surveys of the tributaries have been completed and final conclusions reached as to storage facilities.

Hospital Project Serves Large Area in Kentucky

A modern 52-room hospital, designed primarily for the benefit of residents in a large territory previously without hospital facilities, was recently completed, together with a community infirmary and nurses' home, at Glasgow, Ky., at a cost of about \$300,000. One-third of the cost of constructing and equipping the hospital was contributed by residents of Barren County and the surrounding ter-



Community Hospital

ritory and the remainder was furnished by the Commonwealth Fund of New York, an organization engaged in establishing rural hospitals. The Commonwealth Fund, after investigating several locations in the state, concluded that Glasgow was most suitable for a location because of the extensive mileage of



Nurses' Home

improved roads to it from rural sections. The project was designed by H. C. Pelton and James Gamble Rogers of New York. The J. T. Jackson Lumber Company, Lexington, Ky., were the general contractors.

\$2,000,000 Tourist Camp

Houston, Tex.—Leo Dillingham, representative of the Brazewood Courts, New York City, has acquired a 40-acre tract of land here on the east side of Main Boulevard for the construction of a tourist camp, which will be one of a chain extending across the country, all to be owned by the Brazewood company with local offices in the Neils Esperson Building. Plans are being prepared by A. C. Stimson, of the Stimson Engineering Company, Houston, for 200 brick veneer dwellings, with hardwood floors, shower baths, heating and cooling sys-

tems. The company plans ultimately to build 600 bungalows. When completed the development will represent an investment of approximately \$2,000,000.

Plan \$900,000 Hospital

Excelsior Springs, Mo.—Bids will be opened November 12 by the United States Veterans Bureau, L. H. Tripp, chief of the Construction Division, Washington, D. C., for erecting buildings and utilities here for the U. S. Veterans Hospital. Separate bids will be received for an electric elevator, electric dumb waiter, refrigerating plant, Zeolite water softening system and steel water tank. The work is estimated to cost \$900,000.

\$200,000 Sulphur Dock Planned

Corpus Cristi, Tex.—Plans and specifications are being prepared by Robert J. Cummins, consulting engineer, for a \$200,000 sulphur dock here for the Nueces County Navigation and Canal Commissioners. The structure will be 400 feet long, of reinforced concrete, to provide storage for 10,000 tons of sulphur. Bids will be received October 17 for construction and plans are available at the office of the Navigation District, Corpus Christi, or at the offices of the engineer at 1105 Nixon Building, Corpus Christi, and 727 Bankers Mortgage Building, Houston. Contracts for loading devices will not be awarded at this time.

\$430,000 Roanoke Church Dedicated

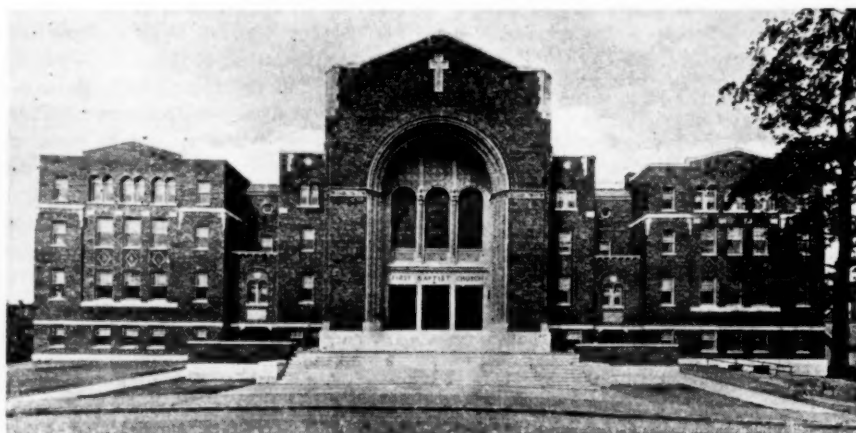
The new building of the First Baptist Church, Roanoke, Va., Dr. William Cooke Boone, pastor, erected at a cost of \$430,000, including \$102,000 for the site, was recently formally dedicated. The structure is of variegated rough texture brick with white stone and granite trim and ornamental terra cotta work. The Romanesque type of architecture was employed and the interior of the auditorium designed to harmonize with the exterior of the central section. Interior wood work is of birch with dark walnut finish.

Facilities have been provided for 12 departments for the Sunday School, with a total of 128 rooms for 2000 pupils. In addition to the main auditorium and Sunday School rooms, there is business office, office for church secretary, pastor's study, kitchen, serving room and dining room, library, ladies' parlor, kitchenette, and boys' recreation room with shower. Vapor heat is employed, with separate plant for office, study and other sections

of the building in daily use. Brown battleship linoleum was used on all floors except the ground floor. Pulpit furniture is of solid walnut; the pews are of quarter-sawn gum stained walnut and lighting fixtures of a new cylinder type specially designed. Art glass windows in auditorium and the front of the building have a center field of varied tints, with borders to harmonize, and specially treated to keep out the glare.

The organ has three manuals, with 35 stops, contains 1906 speaking pipes and a set of 25 cathedral chimes. The baptistry occupies the exact center of the auditorium, which seats 1400; of these 950 may be accommodated on the lower floor, 415 in the balcony and 35 in the choir.

Frye & Stone, Roanoke, were the architects and P. E. Burroughs, of the Architectural Department of the Sunday School Board, Southern Baptist Convention, Nashville, Tenn., was consulting architect. General building contract was handled by J. F. Barbour & Sons, Roanoke.



New Building of First Baptist Church, Roanoke, Va.

A Tennessee Paper's Warning to the South to Take a Lesson From Gastonia

The Nashville Banner, discussing the situation in North Carolina and the dangers which pertain to the South, said:

North Carolina manifestly waited too long to check the Communist invasion. Its coming and intent were unconcealed from the time that New England Communist leaders put in their appearance at Gastonia six months ago. These men and women, some of whom are today under indictment for murder, moved upon lines of total defiance of law from the hour of their appearance. They did much more than urge resistance to an objectionable wage scale. Even in public gatherings they incessantly preached the gospel of violence and bitterly attacked the institutions of the republic.

The ranks of the agitators were constantly recruited with kindred lawless spirits brought in from other sections, sent by the directors of the national campaign. Every device which inflamed hatred of the established order had found effective in other localities was brought to bear upon the situation in North Carolina. Troubles at Gastonia, it was soon perceived, were being made merely the excuse by Communist leaders for effecting a lodgment in the South.

South Carolina was visited, and Elizabethton, Tenn., became the scene of similar intrigue. Bomb, torch and bludgeon appeared there, too. Proclamation was made from New York headquarters that labor was being victimized in the South and that the Communist party would enter the lists as its champion. The Gastonia conspirators who were urging violence and crime as the agencies for settlement of disputes were equally busy in circulating propaganda assailing the American Government.

The failure of the local and state authorities to check their treasonable and unlawful procedure inevitably encouraged them to increasing defiance. Open resistance to municipal ordinances; destruction of property; murderous assaults upon laborers who resisted their mandates; the governor and local authorities flaunted; disorders so continuous that state troops became necessary to prevent wholesale riots; then an armed camp set up within the borders of Gastonia; shot-gun sentinels and pickets with bludgeons and, finally, the inevitable act of criminal audacity and contempt for law, the firing from ambush upon a police chief and assistants—these were but the natural and easily anticipated successive developments that followed upon the failure of officers of the law to

check these banded enemies of the community, of the commonwealth and of the country, when they first uncovered their treasonable designs and began their criminal acts.

Why should the Communist be left free to preach his gospel of disorder and defiance in the South when they are being challenged in other sections? It has been only two weeks since Communist leaders who were advocating on Boston commons the same doctrine which has been proclaimed for months in North Carolina and at Elizabethton, in Tennessee, were summarily arrested by police acting under the peremptory order of Massachusetts authorities. Even in Chicago a gathering of 300 followers of the same red flag which represents the only one to which the Gastonia Communists render allegiance was driven from the streets and its leaders put under arrest.

The South has always been a land of order. Why should it surrender to alien and criminal forces moving from across the seas to stimulate and direct the intrigue of allies already formidably fortified in the great cities of the nation? The Communists of the Carolinas and of Tennessee are but reflecting the purposes and methods underlying the Union of Soviet Russia. The Red campaign has been moving westward since the close of the World War. England was its first great objective, the United States the next. The vast depression in English industry offered an inviting opportunity. For a time it seemed that even the control of government might be achieved. The Labor party was, indeed, successful, but the sturdy patriotism and intelligence of its leaders rebelled against the Communist program. Again the Labor party is in the ascendant, and MacDonald's refusal to permit the Communist creed to undermine his national fealty is responsible for the embittered attack directed against him from the extreme left.

While Soviet Russia is endeavoring to influence American public opinion by a thin-veiled effort to bribe American leaders in industry and finance, by great governmental contracts, its political agents are subtly and incessantly striving to foment class consciousness and conflicts between American citizens, to undermine their confidence in American institutions.

It has been clear for months that it is a part of the national strategy of the Communist party to move upon the South, to make it the next great objective of international intrigue, as the section moves out into a new and rapidly ex-

panding industrial era. The South had better now than later answer the question—Shall this invasion be viewed with complacency or be stubbornly resisted? Is the mistake of Gastonia and that at Elizabethton to be repeated elsewhere? If so, the cost will be great, indeed.

There is a wide distinction between the liberty of speech guaranteed under the constitution as an attribute of the freedom of the individual and of republican institutions, and that license of speech which would substitute crime for law, and dares to assume the right of appeal to the citizenship of the republic to betray and destroy it. The South owes it to itself and to the country to hold this distinction clearly before it. The lesson of Gastonia must not be lost upon this section. There should be no more trifling with the Communist emissaries who appear in Southern communities to prosecute those plans and inaugurate those methods which are bringing disorder and distress to the sister commonwealth of North Carolina. When they begin to advocate defiance of civil authority, contempt for courts, the substitution of violence for reason, and to sow the seed of social revolution, industrial anarchy and hatred for the republic, they should be treated as the public enemies which they are. They should not be kidnapped, but jailed.

[This warning from the Nashville Banner should be heeded by every city in the South. There is a definite, determined scheme on the part of the Russian Communist party to get control as far as possible of the industrial workers of the South and carry out their diabolical schemes, hoping that some day they may be able to overturn the Government itself.

We must ever remember that all the great revolutions have been carried out by minorities; the French revolution was the result of a minority work; the overthrow of the Russian government was through the concentrated effort and work of a minority. It was said that never at any time were more than 10 per cent of the people of Russia in favor of the revolutions which have crushed that country, but an aggressive, determined minority can nearly always overcome a lethargic or unimaginative majority, which does not understand its danger. Though these people may not be able to overthrow the government of the United States, they can by their methods, unless suppressed by law and not by mob violence, make endless trouble in all parts of the United States. The South should meet the situation squarely and fairly and see that these communists are not permitted to carry out their diabolical scheme of disorganization of labor and all other interests.—Editor MANUFACTURERS RECORD.]

LETTERS FROM OUR READERS

Suggestions About How to Save Investments in Farm Lands Not Now Salable

Morse Agricultural Service.
Dalzell, South Carolina.

Editor Manufacturers Record:

I was glad to see your recent editorial on "Crop Production Growing Too Rapidly" as it brings to the fore the most vital problem in our agriculture today. We are going through a period of survival of the most efficient farmers, since as prices for farm products decline, only the more efficient farmers who are able to keep their production costs low can stay in business. However, there is a serious situation developing from this condition, as many banks and insurance companies, especially in the South, now have on their hands thousands of acres of farm lands which are not paying even taxes and insurance. These frozen assets do not improve the financial statements of the banks if they are inventoried at their real market value, yet some of these lands are of good quality needing only good management and capital to produce a profit.

Much of the land controlled by banks and insurance companies is depreciating in productivity and the improvements are deteriorating. Apparently, if the values are to be maintained or increased, some drastic action will be necessary. The logical plan is to organize a holding and operating company to take over large acreages of these lands and to manage them so they will at least pay all carrying charges and not depreciate and where possible pay a profit and improve in value. Where this work is done properly some of the farms can be made to pay out and would be returned to their bankrupt owners, the more efficient ones. Under this plan the owners would operate their own farms, in most cases, under the general management. With good farm management this plan would actually result in decreased production because many of the poorer lands would be used for pasture or reforestation or thrown out of cultivation. One main cause of overproduction of cotton is that the small poor farm operator continues to produce whether he makes money or not so long as he can manage to struggle along.

If the price levels of farm products are maintained at a point where the efficient operator can make a profit, the high-cost producers will be gradually eliminated. The most practicable method of price stabilization is through the farmers' cooperative associations which obtain for their members just treatment and fair prices; besides this many of the cooperatives save their members money in the purchase of fertilizers, insecticides, and other farm supplies. Eventually the farmers' cooperatives will prorate the production of agricultural commodities among their members; thus, so far as is possible, endeavoring to adjust production to demand.

Another factor having a strong influence on over-production is reclama-

tion. The Government should spend no additional money on either irrigation or drainage reclamation in this country until the production of our farms has reached the point where it is unable to supply the demand and an increase of agricultural products is imperative. Neither do we need farm colonists to be imported from foreign countries. There are thousands of acres of cheap good land in the South which should attract new owners, successful farmers, from the high-priced lands of the Central States, for these farmers could sell their high-priced lands, buy the cheaper Southern lands and still have ample working capital left for improvements and operating. Good Northern tenant farmers could become owners here.

We will not solve our national farm problem until we have worked out a practicable "National Agricultural Development Plan." Each component industry of agriculture has a relationship to the other and such a plan should endeavor to maintain the relationship and balance of each to the other while trying to develop the greatest efficiency and economical production in each. Such a plan would provide for commodity production by districts, for standardization of products in each district, for efficient and economical production methods adapted to that district and for cooperative marketing of these products. The plan or program as gradually developed would show the relationship of production to consumption (local, domestic and foreign) including the production of each commodity by districts and communities. It would include community development programs along both agricultural and social lines and its relationship to industrial development as well. Surveys made by national, state, county and local agencies would give the basic data needed and of course all the existing data would be used. Such a plan might well be made the basis for the operations of the Federal Farm Board. Without some such countrywide analysis and plan coordinated efforts for "farm relief" will be difficult.

STANLEY F. MORSE.

Profit in Southern Dairying

Spring Hill, Tenn.

Editor Manufacturers Record:

I thank you for your recent editorial "Why Wisconsin Farmers Prosper." It is impossible to keep too much before our farmers and business men the great revenues to be derived from dairying, and I think the business men need it more than farmers, for the latter are thoroughly sold on the proposition. More business men and bankers need to learn the profit to be derived from proper financing of reputable farmers in starting dairy herds. If anyone still needs argument on the adaptability of the South to dairying, the fact that there is in this state, Tennessee, the largest co-operative creamery in the world ought to be at least persuasive.

LUCIUS P. BROWN,

Former Secretary,
Tennessee Jersey Cattle Association.

One Way in Which a Protective Tariff Would Benefit Texas

Brazos River Harbor Navigation District.
Freeport, Texas.

Editor Manufacturers Record:

I notice in the MANUFACTURERS RECORD that you are trying to educate people in the South that a protective tariff can be made as beneficial to them as the manufacturing interests of the East.

I have lived at this point for nearly 17 years, coming here in 1912 when the production of sulphur was first started in Brazoria County. My boyhood days were spent in Middletown, Conn., and it is fair to presume that I was brought up in a Republican atmosphere, and have seen no reason for changing my political affiliations since coming into the South, at least on national issues.

We have in Brazoria County an excellent soil and climate for raising what is known as the Magnolia fig. This industry was started about ten years ago and our principal obstacle to a great success for the sale of figs has been the lack of funds to properly advertise them. There has been a tremendous amount of figs shipped into this country from Smyrna. The present tariff bill, I believe, carries a duty on these figs and should this finally be enacted into a law, the volume of figs provided by this source would be turned into Southern figs and will result in thousands of acres going into cultivation in the Gulf coast section of Texas to supply this demand. I am citing you this instance as to what a protective tariff on this commodity might do for this vicinity.

The most fertile state in the South for the Republican party and protective tariff is Texas. It is needless for me to tell you that the Gulf coast is fast becoming industrial and as people begin to see the benefits that come from the protective tariff, it will not be long before even a Democratic Representative in Congress will be forced by his constituents to stand for the protective policies.

EDWARD C. TOBEY, Chairman.

[We fully agree with Mr. Tobey in his thought that Democratic congressmen must begin to realize in the near future that they will land on the scrapheap of political life if they do not come to a realization of the fact that a protective tariff is essential to the progress of the South.—Editor MANUFACTURERS RECORD.]

Encyclopedia of South

Will P. Scott, attorney-at-law of Dawson Springs, Ky., in a letter to the MANUFACTURERS RECORD referring to its work, writes:

"I never lay it aside until I have devoured its contents. It is a college course of encyclopedic knowledge of the South. I read it and take it and place it in the library of our High School, and the principal advises the boys to read it for information."

IRON, STEEL AND METAL MARKET

Demand for Steel Still Above Its General Trend Line

Pittsburgh, September 30—[Special.]—Steel demand has been slipping more markedly and is getting down to its general average, having been in a very marked bulge since the middle of last year. While the first half of last year was a very good one in production, the second half showed a slight gain instead of the usual seasonal decrease, and up to September 1 this year was 18 per cent, or 6,000,000 tons of steel ingots, ahead of last year. Last week's rate of production was approximately 15 per cent under the rate of last May and about equal to that of a year ago, but last year production was increasing while now it is decreasing. Thus there are going to be losses by short range comparisons, either with early this year or late last year.

On the other hand, steel production can decline still further and yet be above its general trend line as computed by taking production since the war with its average increase of 2 to 3 per cent per annum. A serious reaction would be one that would carry production below the general average, to balance cases of its being above, and that is not now indicated. The familiar procedure would be for production to decline to the end of the year and then begin increasing in January.

There is no large general decrease in steel demand. There are a few special decreases of moment, and perhaps some small decreases elsewhere. The automobile industry's steel consumption is down far from its pace in the first half of the year, with practically no chance of recovery this year. Freight car shops are near the end of their large orders, and there is some car buying now, perhaps stimulated by car shops naming low prices to keep organizations together. They would have to ask more if the shops closed and had to be reopened. Agricultural implement manufacture has been off somewhat since July. There has been the usual seasonal decrease in rail production, which is now in the neighborhood of 60 per cent.

Otherwise steel demand seems to be holding up quite well. Certainly there is no decrease in fabricated structural steel, as the fabricating shops have been booking heavy tonnages right along and have a larger order book now, by about a month's work, than on February 1.

Line pipe business has appeared sluggish in the last few weeks, but the A. O. Smith Corporation, Milwaukee, has just booked an order from the Pacific Gas &

Electric Company, about 54,000 tons, involving 348 miles of pipe, 16, 20 and 22 inch, for natural gas in California. Early in January there was an order between the same parties for 44,000 tons also for natural gas in California.

The annual rail buying movement has been proceeding much as usual, orders reported to date totaling 187,000 tons. Directors of the Pennsylvania Railroad have authorized purchase of 310,000 tons for the system for 1930 use, against 300,000 tons authorized two years ago, hitherto the largest authorization. In each year beginning with 1925 the system has laid more than 200,000 tons in replacements, this being apart from a relatively small tonnage for new track. Orders to be placed shortly will probably be for two-thirds the tonnage authorized, it being the Pennsylvania's practice to order a certain tonnage with an option of 50 per cent additional.

Gradually price weakness is becoming more apparent in the market situation. Nails and sheets slipped somewhat in June and July and recently nails declined again, being now at \$2.45 to \$2.55. A few weeks ago efforts were made to stiffen galvanized sheets, then quotable at 2.50c to 3.60c, to a full 3.60c as minimum, and those efforts have now been practically abandoned. Plates and shapes, quotable for some time at 1.90c to 1.95c, are going more frequently at 1.90c than formerly, and bars, hitherto quotable at 1.95c, are now sometimes going on a 1.90c basis.

As steel prices did not advance materially during the period of especially heavy demand they do not seem to have much room for decline. Late in 1927 there developed the lowest prices since 1922, and prices now do not average more than \$2 a ton higher than at the 1927 low.

Metals Show No Present Signs of Life

New York, September 30—[Special.]—The metal markets have settled into a rut of dullness which is reminiscent of mid-summer. Export sales of copper average about 750 tons daily as against several thousand tons early this month. Total sales for export this month have been about 60,000 tons. Domestic copper business has been extremely quiet.

The tin market continues in the doldrums with no pronounced sentiment and hardly any action of any kind. Prices are gradually sagging from the market's own dead weight. Sales of standard tin futures on the National Metal Exchange for the month were only 900 tons as

against a monthly average of nearly 4000 tons. Lead has been more active than the other major metals, though the sales volume is no more than average. Zinc prices have weakened somewhat, with sales made as low as 6.72½c per pound, East St. Louis, as against a published price of 6.80c.

Industry in general continues to be in a sound condition. Operations of the steel industry continue to decline regularly, though compare favorably with a year ago at this time. Purchasing of raw materials, including ferrous and non-ferrous metals, is missed from the automobile industry, though the railroads are purchasing the most briskly so far this year. Statistics still show how building operations fall off, though this is among the smaller housing types of buildings, which, however, are important consumers of the non-ferrous metals.

The minor and precious metals are virtually unchanged except for declines of \$1 to \$3 per ounce in prices of platinum. Silver prices have usually remained below 51c per ounce, while quicksilver is steady at \$124.50 to \$126 per flask of 75 pounds, the price being determined by the country of origin and the price ideas of the various sellers. The antimony market has steadied following some price fluctuating a month ago.

Larger quantities of the non-ferrous metals are being alloyed with steel for use in the automotive and aircraft industries. Such metals as copper, chromium, nickel, tungsten are being added to the electric furnaces which turn out the alloy steel. The radio show at New York this past week has called attention to a further use of non-ferrous metals in the shielding of sets, made more necessary by the screen-grid tubes. Copper, brass, aluminum, etc., are the chief metals employed for this purpose.

The outlook in copper is for a dull and quiet market until after the September statistics are issued in two weeks. Even these are not expected to change the tone of the market since they are already discounted, being looked upon favorably. One prediction has it that total shipments in September will be 155,000 tons as against 142,000 tons in August.

Domestic users of copper are covered on their October requirements, but since this is the last day of September there will probably be some buying for November late this week. Foreign users are not covered on their needs so far ahead and this class of business will probably be relatively better than domestic business over the next few weeks. Copper prices are unchanged at 18c, domestic delivery, and 18.30c c. i. f. European

ports. Though no higher prices are expected over the rest of the year there is less expectancy of price reductions such as prevailed during the spring and summer.

Copper consumption is the best on the part of the electrical industry, with wire bars and bare copper wire the most popular forms. The strike at the refinery of the American Metal Co. at Chrome, N. J., has been settled, this having been a disturbing factor in the entire copper industry.

The tin statistical situation is optimistic, though the market is by no means reflecting this good feeling. It is predicted that Straits Settlements tin shipments in September will be the lowest in several months, while American deliveries will be large. Therefore the

world's visible supply should reveal a substantial decline. Prices of Straits tin have sagged to 45c per pound and consumers have bought cautiously and for prompt delivery. Future delivery is held at as much as 3c per pound above the prompt tin price, which causes consumers to avoid the distant deliveries.

Lead is very firm at 6.90c per pound, New York, and 6.70c, East St. Louis. Consumers have started to buy their November needs. The market has a strong appearance, order books of the producers being well filled.

Zinc producers are still disappointed because the expected buying wave has failed to materialize. Early in the week sales were made as low as 6.72½c per pound, though there was some slight stiffening of prices later.

\$2,230,000 Resort Development for Dauphin Island

Kershaw Interests to Build \$950,000 Bridge and Develop Resort—
Mobile County to Build Connecting Highways

Mobile, Ala.—Plans being developed by Royce Kershaw, Inc., Jacksonville, Fla., the C. G. Kershaw Contracting Company and associates for constructing bridges and causeways to connect Dauphin Island with the mainland at Cedar Point and the subsequent development of the island will entail an expenditure of \$2,230,000 between this time and next July and perhaps a total of \$5,000,000 within three years, according to an announcement here. The Dauphin Island Bridge Company has been formed to carry out the enterprise, which will involve the immediate construction of a \$950,000 toll bridge, causeways and roads, as specified in a contract between the Kershaws and the Mobile County Board of Revenue. The county is expected to expend approximately \$500,000 for the construction of 11 miles of the Cedar Point road extension and \$125,000 to build a bridge over Dog River to connect the completed highway from Mobile to Cedar Point.

Work on the bridge is to start as soon as contracts have been awarded by the county to build the road extension to provide an arterial highway directly from Mobile to the mainland approach to the bridge, which will take it across Mississippi Sound and Grant's Pass to North Point on Little Dauphin Island, and then by causeways, bridges and roads to the beach on the Gulf of Mexico across Dauphin Island, Dauphin Bay and the southernmost part of the island. The bridge will be of concrete and with the causeway will total 23,500 feet.

According to the Kershaw plans, the

development of the island as a resort center will begin simultaneously with the beginning of construction of the bridge and causeway. It is planned to erect a 100-room hotel at a cost of \$250,000, 2500-foot fishing pier, casino, about 50 cottages, yacht club and other facilities.

To Vote on Road Bonds

Canton, Miss.—Madison County votes October 11 on a bond issue of \$412,000 for constructing roads throughout the county, covering a total of 97 miles and including the following: Six sections in the first district of 24 miles; five sections in second district, 14.55 miles; three sections in third district, 17.4 miles; two sections in fourth district, 16.1 miles, and four sections in the fifth district, 25 miles.

\$350,000 for Louisiana Road

Monroe, La.—Ward 1 of Wichita Parish voted a bond issue of \$350,000 for paving 12 miles of the Sterlington road, with the assurance that the Louisiana Highway Commission will pave 11 miles additional of the highway. This construction will connect the road at the Morehouse Parish line on the north to the Dixie-Overland highway at the south end of Ward 1. An expenditure of \$50,000 of the bond issue will be made to improve detours for use while the road is under construction.

Sub-Contracts on \$250,000

Bleachery

Greenville, S. C.—Potter & Shackelford, Inc., of this city, general contractors to erect a \$250,000 bleachery here for the Union Bleachery, have awarded the following sub-contracts:

Cast iron columns—Paul Wright & Co., Birmingham, Ala.

Common brick—Merry Bros. Brick & Tile Co., Augusta, Ga.

Creosoted piling—Taylor-Colquitt Company, Spartanburg, S. C.

Creosoted plank—J. F. Prettyman & Sons, Charleston, S. C.

Driving piles—S. Marion Hay, Charleston, S. C.

Reinforcing steel—Southern Engineering Co., Charlotte, N. C.

Steel sash (not including glazing or erection)—Detroit Steel Products Co., Detroit, Mich.

Structural steel—Charlotte branch of McClintic-Marshall Co., Pittsburgh, Pa.

Untreated timber and plank—A. W. Allison Co., Greenville.

The building will be 450 by 100 feet, 2 stories, of brick, steel and timber, with maple floors and Barrett roof. J. E. Sirrine & Co., Greenville, are the engineers.

Du Pont Rayon Plant Nearing Production Capacity

Richmond, Va.—The Amphill plant near this city of the Du Pont Rayon Corporation, New York, which began operations early in June is approaching its normal production of rayon yarns, with an operating force of 1600. This number is expected to be increased to 2000 after capacity production is reached. According to officials, the plant is now operating at 70 per cent of capacity and full production is expected by the last of October. At that time the production will be at the rate of 4,000,000 pounds annually, it is expected.

Goodenow Textiles Plant

Kansas City, Mo.—Plans are being made by the Goodenow Textiles, Inc., for building a new plant here of 40,000 square feet, about double the floor space of their present plant. The new building, to occupy 100 feet of ground at 3708-3712 Main street, will be three stories high and is estimated to cost \$80,000. The company plans to increase its present force of operatives from 200 to 300.

Plaid Mills Addition

Burlington, N. C.—Plans are being prepared by James M. Workman, Greensboro, N. C., for an addition to the plant here of the E. M. Holt Plaid Mills, Inc., of which Lynn B. Williamson is president and treasurer and Walter M. Williams, secretary and manager. The new addition will be 56 by 75 feet, 3 stories, to house rayon machinery. It will cost about \$50,000.

AVIATION, AIRPORTS AND AIRWAYS

Boll Weevil Control by Airplane Dusting

By J. H. STALLINGS, Agronomist, Soil Improvement Work, The National Fertilizer Association, Shreveport, La.

COTTON acreage in Texas which has been protected against insects by airplane-dusting increased from 3000 acres to approximately 50,000 acres in 1928, according to Dr. F. L. Thomas, chief, division of entomology, Texas Agricultural Experiment Station. In a recent bulletin Dr. Thomas states that in 1926 and 1927 investigations were undertaken of the work of controlling boll weevils by this method as conducted under arrangements made between the farmers and the airplane corporations.

Increased yields varying from 62 to 206 pounds of seed cotton per acre were produced in all cases where conditions warranted the use of control measures. Three to five applications of calcium arsenate dust were made. The amount applied per acre per application was about as specified by the owners of the farms and in one case was nearly 8½ pounds. In each instance the amount exceeded 5 pounds or the usual recommendation for a per acre application. The number of squares punctured by boll weevils was reduced 50 per cent 10 days after dusting started and after two applications had been made.

In airplane dusting for boll weevil control it is especially important that information be obtained on the condition of the infestation at the beginning of dusting operations. This information should be used in directing the work of the airplane, as the expense increases rapidly when applications are made to areas where the infestation is not sufficient to justify the use of poison. For best results, it is also important that applications be made at five-day intervals.

The cost, including the poison, ranges from 75 cents to one dollar per acre per application. This method of applying dust should prove profitable for the cotton growers as well as the corporations where the infestation averages 15 per cent early in the season or 20 per cent later in the season, with weather conditions favoring increase in weevil injury.

Airplane dusting offers relief in those cases where, owing to wet grounds, teams and men cannot get into the fields at the proper time to maintain the necessary five-day intervals of application. Dusting is profitable on the larger tracts if the infestation is thereby kept down or reduced when it would otherwise be

high, provided, of course, the soil is rich enough to produce a good crop in the absence of weevil damage. Furthermore, the price of cotton must be high enough to justify the expense of dusting.

American Airplanes for Foreign Service

St. Louis, Mo.—That American airplane manufacturers are finding a growing market for their products in foreign countries, especially in those countries which do not at present manufacture airplanes, is attested by the fact that the Ryan Aircraft Corporation, Anglum, Mo., has sold 30 Ryan Broughams in foreign countries in 18 months. These planes and spare parts are valued at approximately \$360,000. Nine Ryans, it is announced, are now operating in China, nine in Mexico, three in Guatemala, three in Canada and one each in Italy, England, Japan, Australia, Argentina and New Guinea. Officials of the Ryan Aircraft Corporation, which is a unit of the Detroit (Mich.) Aircraft Corporation, look for a rapid increase in export business, especially in South and Central America and China.

Big Airport for Tennessee

Murfreesboro, Tenn.—Officials of Interstate Airlines, Inc., subsidiary of the Aviation Corporation, New York, announce a big airport seven miles from this city, to be known as Tennessee's Sky Harbor, will be opened soon. The airport is located on the Dixie Highway 23 miles from Nashville and will be a stop for passenger and mail planes of the Interstate Airlines on their way from Chicago to Atlanta. While no definite date has been set for opening the airport, it is understood that the Ford National air tour with approximately 40 planes will stop there at noon October 14.

Air Line to Aid Lumber Industry

Tampa, Fla.—The inauguration of the New York, Rio and Buenos Aires Air Line, which will make Tampa its southern United States stop, is expected to bring lumber shippers in closer contact with the South American market, according to L. N. Dantzler, Jr., Argentine consul here and vice-president of a

Tampa exporting company. Mr. Dantzler explains that lumber exports help to stabilize the Florida industry when the North American market is quiet, and when sales manifests reach Buenos Aires within a week instead of 24 days as now required, Florida will develop a business efficiency with South American customers which is expected to prove a great factor in defeating competition from other lumber exporting countries. The Argentine is Florida's principal lumber-export market, with Germany ranking second and England third.

New Air Lines Announced

Atlanta, Ga.—The Southern Air Lines, Inc., recently announced new air routes, including one from Atlanta to Detroit, via Knoxville, Tenn., Cincinnati, Columbus and Toledo, Ohio. Another route will extend from Atlanta to New York, following the route of the Pitcairn line, while still another will extend from Atlanta to Chicago, following the route of the Interstate Air Line.

Marking Highways for Air Navigation

Washington, D. C.—In connection with its efforts to bring about adequate air marking of the United States, the aeronautics branch of the Department of Commerce has completed its suggested specifications for air marking of highways, according to Harry H. Blee, chief of the division of airports and aeronautic information. The specifications will be included in a bulletin on the subject of air marking, soon to be available, which will describe in detail the standard system of marking recommended for use throughout the nation.

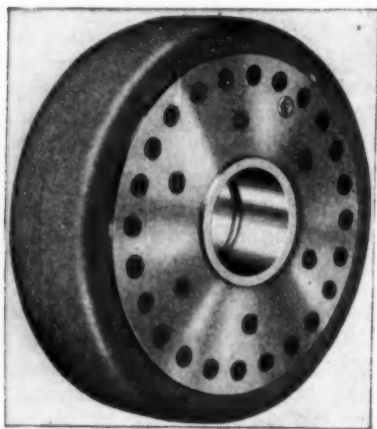
New Airport for Amarillo

Amarillo, Tex.—A modern hangar and airport facilities are being completed here by the Amarillo Airport Corp., which has a sod landing area of more than 700 acres about three miles east of the municipal field. The main hangar is 120 by 150 feet, of brick construction, with a tower containing flood lights and water pressure tank. A 3,000,000-candle power flood light will throw a beam for two and one-half miles, at an angle of 180 degrees, it is said. The Amarillo Airport Corp. is a subsidiary of the Aircraft Holdings, Inc., of Albuquerque, New Mexico, where the company owns and operates a field used by the Transcontinental Air Transport and the Western Air Express. Harold W. English is manager of the Amarillo enterprise.

NEW AND IMPROVED EQUIPMENT

Wheels and Casters for Industrial Trucks

Adding to its line of end-grain wood wheels for trucks, the Metzgar Company, Inc., of Grand Rapids, Mich., is producing a "super-strength" type wheel for hand-lift and other trucks subjected to unusually heavy duty in warehouse and trailer service. In all Metzgar types—standard, heavy duty and "super-strength"—the wheels are made up of a number of hardwood wedges of equal size securely bound together with circular steel bands. With the hub flanges, the bands are laid deep enough in the wood to provide necessary radial strength and are fastened by rivets extending through each wedge. The butt end of the wedges



"Super-Strength" Type Metzgar Wheel

are surfaced, forming an end wood tread said to have wearing qualities comparable to a butcher's block. Various hub arrangements are available and wheels may be equipped with either oil-less end wood bearings or Hyatt roller bearings, the entire wheel being impregnated with a suitable lubricant which is claimed to provide a plain bearing that will last indefinitely in plain trucking operations. Alemite-Zerk lubrication may be furnished, however, for plain bearing wheels.

The standard type wheel is made in a range of sizes from 2½ to 20 inches in diameter, rivets in the side plates being countersunk to make both sides of the wheel perfectly flush, so that less space is required in the horns when the wheels are used in swivel or rigid casters. Compression tests of 10-inch diameter, 3-inch face wheels of standard type are said to have withstood a load of 21 tons. For heavier service than is usually required for two-wheel warehouse trucks and four-wheel platform trucks, the heavy-duty type wheel is said to be particularly suited, having double the number of wedges and rivets as the standard

type. Sizes in this type range from 6 to 20 inches in diameter and up to 6 inches in face width, the 6- to 10-inch wheels, inclusive, being of the plate type and the larger sizes of the band type. They are made in hub lengths to fit any size of axle. All super strength wheels are of the plate type construction, the regular duty or standard wheels ranging from 2½ to 10 inches, inclusive.

The Metzgar Company, Inc., after checking the trailer problems of the Pere Marquette Railway Co. in its Wyoming yards, Grand Rapids, equipped its trailers, both flat bottom and dump truck types, operating over several miles of concrete railways at the rate of 5 to 10 miles per hour with loads ranging from 5200 to 6200 pounds. The Metzgar "super-strength" wheels have been in operation about a year and are still in perfect condition, it is said.

End-grain wood wheel casters are made by the Metzgar company in both rigid and swivel types for a variety of industrial applications.

High Capacity Electric Shovel

Up to 1910 the railroad type shovel was supreme, it is said, in the power excavating field, but as mining fields developed and new economic obstacles arose it became necessary to develop a larger excavator, one that could handle a big volume at low operating cost per unit. Accordingly, the large full revolving excavator with great range and capacity was developed; the first of these is stated to have been shipped by the Marion Steam Shovel Co. of Marion, Ohio, in 1911. Recently new problems, particularly in mining operations, have called for a different type of power excavator, a shovel of large capacity with low maintenance cost. To meet these requirements, the Marion shovel, type 6200, was designed; to be very fast, yet always under control of the operator, and to be quickly movable in the pit with sufficient range to obviate the necessity of many moves. This shovel is entirely new, speed having been obtained first, by having a minimum of rotating parts, and second, by mounting the entire hoist unit on the swing circle, eliminating the old chain hoist and accompanying sheaves. These features permit a rapid hoist, fast swing and easy control.

Increased capacity has been obtained through this speed of operating cycle, combined with a large dipper, the standard dipper of this type being of 5 cubic yards, small enough to permit fast and efficient handling and large enough to

assure high capacity. The machine is equipped with a separate propelling unit mounted rigidly on the lower frame and under separate control. Power from the motor is conveyed through a gear train to two semi-rigid crawlers having a three-point bearing to allow for inequalities of the pit floor. The shovel is said to have a larger swinging arc than was possible on the railroad types, its 220-degree swing permitting digging or loading far back of the center line of rotation, making it possible to load three ore cars at once without re-spotting them. Having a 20 per cent faster operating cycle than the somewhat similar 4-yard full revolving excavator, with a dipper capacity 25 per cent larger, this new type shovel is estimated to have nearly 50 per cent greater output.

Die Holding Stand

The Davenport Locomotive & Manufacturing Corporation, Davenport, Iowa, announces a new shop tool, the Davenport Universal die holding stand, designed for holding die blocks while in process and to facilitate work of the die maker by enabling him to set the block at any desired height or angle without physical handling. The stand is made in two standard sizes, one to accommodate blocks up to 1500 pounds, the other up to 3000 pounds. The multiple-angle head fixture is made of high quality steel, with an adjustable clamp on either side which slides in an accurately machined and fitted T-slot, and is actuated by a worm and segment gear operated by a convenient hand wheel. Any position may be quickly obtained by turning the hand wheel until the desired angle is reached, then swinging the entire top assembly which is completely pivoted. The work is then locked in position and it is claimed that the possibility of accident is minimized and the work requires no further handling until completed.

Cotton Association Opens Memphis Offices

Memphis, Tenn.—The Staple Cotton Cooperative Association, Ernst & Ernst, auditors, New York, said to be the largest handler of Delta staples in the world, announces the opening of offices at 4 North Front street, Memphis, with Claude T. Jones as manager. During the eight years of its operation, the association has handled a total of 1,422,304 bales of cotton, it is announced.

CONSTRUCTION DEPARTMENT

and

NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

The Daily Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

Airports, Airplane Plants, Etc.

Ala., Montgomery—Southern Air Express, Inc., R. E. Selbels, Sec., advises in connection with erecting airplane plant, probably be 12 to 15 months before beginning plans for building. 9-26

Fla., St. Petersburg—Fred V. Blair, Pres., Blair & Co., Inc., J. B. Smith Bldg., and organizer of Aeronautical Industrial Holding Corp. of Florida, announced plans for establishing big airport for land and sea planes; acquired 540 acres north of Shore Acres property; to be known as Grand Central Airport.

Ga., Barnesville—T. O. Galloway, Charles P. Graddick and Joe H. Smith appointed as committee by Civitan Club to investigate and select site for airport.

Ga., Thomasville—City Council leased 213 acres of McIntyre estate for airport.

Md., Baltimore—Dietrich Bros., 220 Pleasant St., have contract for 300 tons struct. steel, for hangars and bridge for Curtiss Flying Service, 39 Broadway, New York, at airport, Smith Ave. and Green Spring Ave.; Stone & Webster Engineering Corp., 49 Federal St., Boston, Mass., Gen. Contr. 6-27

Md., Baltimore—Victor A. Pyles & Co., 527 Chesapeake Ave., has contract for \$19,000 sewage disposal plant for Glenn L. Martin Co., Glenn L. Martin, Pres., Leland and Ponca St., at airplane plant, Middle River Station, including sewage plant, 2 disposal tanks and pipe line; private engineering plans. 5-16

Md., Hagerstown—Reisner Aircraft Co., Inc., increased capital stock, 1000 shares preferred stock, par value \$100, and 50,000 shares common stock, no par value, to 1000 shares preferred stock, par value \$100, and 75,000 shares common stock, no par value.

Mo., St. Joseph—Fairfax Airports, Inc., Franklin Moore, V.-Pres. and Gen. Mgr., Fairfax Airport, Kansas City, Kan., may erect small club house and hangar at recently acquired municipal airport; install small restaurant equipment. 9-12

Mo., St. Joseph—Woods Bros., G. E. Stanley, Security Bldg., Kansas City, reported, plans \$50,000 airplane plant; 1 story.

Mo., St. Louis—Board of Public Service, E. R. Kinsey, Pres., let contract to Central Paving & Construction Co., 417 N. Seventh St., at \$27,645, for runway, municipal airport; W. W. Horner, Engr. 9-26

Okla., Enid—Master Air-Craft Corp., capital \$250,000, incorporated; Geo. H. Arbenz, Alfred W. King.

S. C., Columbia—Columbia Flying Service, Inc., capital \$20,000, chartered; J. A. Mood, Pres.; to be Curtiss representative at Columbia airport, buy and sell airplane parts, motors, etc., operate airports, airlines, do taxi service and operate flying schools.

Tenn., Clarksville—Clarksville Aviation Corp. acquired 236 acres, Ringgold community of Third Dist., 6 mi. from here, on Federal Hwy. 41; now develop and equip for landing field, including grading, laying runways, marking field and erect hangars.

Tenn., Nashville—Southern Flyers, Inc., Tarebell Patten, Minnekalida St., Chatta-

nooga, recently organized to buy and sell planes and transportation, negotiating to establish branch here. (See Chattanooga, 8-22.)

Tex., Dallas—Dallas Airports Utilities Corp., Charles W. Davis, Sec.-Treas., 4815 Live Oak St., has low bid from Airports Engineering & Construction Co., subsidiary of Southern Air Transport, Inc., Fort Worth, for hangar, machine shops and administration building, Love Field, at \$119,775.26; Southern Air Transport, Inc., to lease hangar upon completion. 9-19

Tex., Galveston—City, Jack E. Pearce, Mayor, plans having construction under way on municipal airport within 6 months.

Tex., Houston—Houston Main Street Airport, capital \$20,000, incorporated; J. I. Huff, 303 Willard St.

Tex., McAllen—Whit Rogers, Sec., Chamber of Commerce, advises city will not issue bonds for acquiring airport site, but purchase by warrants; not planning any buildings for some time but will clear ground for landing field. 9-12

Va., Danville—Curtiss Flying Service, 39 Broadway, New York, plans leasing municipal airport.

Va., Hampton Roads—Bureau of Yards and Docks, Navy Dept., Washington, D. C., has low bid from F. J. Gannaway, 1119 Larchmont Crescent, Norfolk, for improvements to flying field, at \$19,225.25 for item 1, 30.5 cents per sq. yd. for item 2, and 30.5 cents per sq. yd. for item 3.

Bridges, Culverts and Viaducts

Proposed Construction

Ala., Mobile—Royce Kershaw, Burnett Bldg., Jacksonville, Fla., C. G. Kershaw, formed Dauphin Island Bridge Co., for construction of toll bridge and causeway to connect Dauphin Island with mainland at Cedar Point; 4½ mi. long, conc. piles and deck, north and south, from terminus of Cedar Point road, across Mississippi sound and Grant's Pass to North Point, Little Dauphin Island, then across Dauphin Island, Dauphin Bay and southern point of Island to beach on Gulf of Mexico; plans starting construction in Nov.; cost over \$950,000.

Ala., Mobile—Mobile County receives bids soon for 6 bridges. See Roads, Streets, Paving.

Florida—See Roads, Streets, Paving.

Fla., Sanford—Seminole County receives bids Oct. 7 for timber bridge, conc. spillway, etc., in Black Hammock Drainage Dist.

Ga., Perry—Houston County Comms. considering overhead bridge at Central of Georgia Ry. crossing at Echeconnee.

Ky., Carrollton—State Highway Comm., Frankfort, will build free bridge across Ohio River at Carrollton; J. S. Watkins, State Highway Engr. 9-5

La., Thibodaux—War Dept., Washington, D. C., approved plans Louisiana Highway Comm., Baton Rouge, for bridge over Bayou Grand, about 7½ mi. north of Thibodaux; replace existing bridge.

Maryland—State Roads Comm., Baltimore, receives bids Oct. 10 for 2 bridges: Cecil County—substructure for single span steel

girder Heister's Bridge over P. B. & W. R. R., North of Charlestown, Cont. Ce-56; Howard County—single span 26-ft. rein. conc. arch bridge on Frederick Pike, Ellicott City to West Friendship, over Little Patuxent River, Cont. Ho-59; G. Clinton Uhl, Chmn.

Md., Rockville—State Roads Comm., Baltimore, receives bids Oct. 15 for single 10-ft. span, rein. conc. slab bridge on Bradley Blvd. near B. & O. R. R. underpass, Montgomery County; H. D. Williar, Jr., Ch. Engr.

Miss., Batesville—See Roads, Streets, Paving.

Miss., Columbus—Lowndes County Bd. of Supvrs., John J. Richards, Clk., to build or repair 14 bridges: Moore's Bluff road, one steel and wood bridge, Cedar Creek, Dist. No. 4, or wood bridge only; Cedar Creek bridge, east of present crossing; repair 4 bridges on Columbus Mayhew road, Dist. No. 5; bridge east of Taylor's runway; floor and runway at Thurston's steel bridge; repair 4 bridges, Plymouth road, Dist. No. 5; at Coleman's runway; bridge at Gilliams runway; repair bridge at Sixteenth section school; bridge at Bradford; bids Oct. 10.

Miss., DeKalb—Kemper County Bd. of Supvrs., receive bids Oct. 7 for 2 bridges on DeKalb and Shuqualak road, Project No. 2; 60,000 ft. creosoted lumber, 2500 lin. ft. creosoted piling; P. H. Pipkin, Engr.

Miss., Holly Springs—Marshall County Bd. of Supvrs., J. T. Wade, Clk., receives bids Oct. 8 for 270-ft. pile bridge across Coldwater River, Taska to Red Banks, Dist. No. 2.

Miss., Holly Springs—See Miscellaneous Construction.

Miss., Purvis—Lamar County Bd. of Supvrs., J. D. Sumrall, Clk., receives bids Oct. 7 for 2 bridges over Black Creek on U. S. Highway No. 11: Main Bridge and Relief Bridge; 140,000 ft. B. M. creosoted timber; 5,800 lin. ft. creosoted piling, 44,800 lb. struct. steel.

Miss., Quitman—Clarke County Bd. of Supvrs., W. R. Raley, Clk., receives bids Oct. 8 for 500 ft. approaches for proposed Evans Bridge across Buckatunna Creek; several small bridges, all Beat 5.

Miss., Sardis—Panola County Bd. of Supvrs., J. A. Carter, Clk., receives bids Oct. 7 for wooden bridge across Peach Creek, south of Pleasant Grove, Supvrs. Dist. No. 2; road levee embankment, Sardis and Oxford road, via Union Consolidated School Dist. school house, from point east of Nelson's Creek to Tallahatchie River, Willbourne's mill site, 25,000 cu. yd. excavation.

Miss., Tylertown—Walthall County Bd. of Supvrs., J. C. Luter, Clk., receives bids Oct. 7 for 2 bridges: 3-span bridge in First Supvrs. Dist.; 4-span bridge across Bullock Creek, Fifth Dist.

Miss., Wheeler—Prentiss County Bd. of Supvrs., Booneville, receives bids Oct. 7 for 2 steel bridges on levee west of Wheeler.

Okla., Maxwell—H. F. Mitchell, 709 Jennings St., Fort Worth, Tex., has plans for 6-span, 900-ft. steel bridge on piers, over South Canadian River, Pontotoc County, near Maxwell.

Okla., Sand Springs—State Highway Comm., Oklahoma City, probably receives bids in Oct. for steel or conc. bridge over Arkansas River near Sand Springs, Tulsa County, cost about \$400,000. 8-22

Okla., Tulsa—City, F. F. Kitchen, Municipal Bldg., plans four 700-ft. viaducts over Frisco R. R. at Boulder, Main, Boston and Cincinnati St.; V. H. Cochrane, Engr., 326 New Wright Bldg.

South Carolina—See Roads, Streets, Paving.

Tennessee—War Dept., Washington, D. C., approved plans Tennessee Highway Dept., Nashville, for bridge over Obey River, Buford and Webb's Ferry, and also near Wallace Ferry.

Tenn., Johnson City—City Planning Comm., preparing plans for 4 or 5 railroad viaducts; also considering plans to widen $\frac{1}{2}$ mi., Market St., 50 ft.

Texas—See Roads, Streets, Paving.

Texas—State Highway Comm., Austin, applied to War Dept., Washington, D. C., for approval of plans for permit to construct 2 bridges across Colorado River: Wharton County—Highway No. 12, near Wharton; Matagorda County—Highway No. 58, near Bay City; G. G. Wickline, State Bridge Engr.

Tex., Dallas—Dallas County, F. H. Alexander, County Judge, plans overpass at Island Ry., near Dallas-Tarrant County line, on proposed gravel road from Irving to connect with road in Tarrant County, toward Fort Worth.

Tex., Houston—City, J. G. McKenle, City Bridge Engr., preparing plans for bridge across Buffalo Bayou; W. E. Monteith, Mayor.

Tex., Houston—H. L. Shaw, City Engr., preparing plans for replacement of McKee St. Bridge across bayou; 3200 ft. structure across stream on line with San Jacinto St.; south side approach from Crawford and Magnolia St., northeastern to new bridge line; underpass on south, beneath Missouri-Kansas-Texas R. R. tracks; north side include viaduct over Southern Pacific R. R. tracks and Nance and Sterrett St. to San Jacinto St.; bridge and viaduct 1700 ft., remainder for north and south approaches; alternate plan provides for new structure on present site of McKee St.; W. E. Monteith, Mayor.

Tex., Lubbock—City, Harley D. Woods, Mayor, receives bids Oct. 7 for underpass under Santa Fe Ry. tracks, North Ave. H.; cost about \$160,000.

Tex., San Antonio—City Commrs., Paul Steffler, Street Commr., plans bridge across Apache Creek at Zarzamora St.; repair bridge at Travis St.; \$25,000 available; I. Ewig, City Engr.

Tex., San Angelo—Tom Green County, J. T. Mathison, County Judge, and West Texas Utilities Co., plan 1200 ft. conc. bridge and approaches, across Middle Concho River, at Seven Mile crossing; County Engr. making survey.

Tex., Tyler—Smith County, W. R. Castle, Judge, plans widening 10 bridges on 62 mi. Highway No. 31; \$14,646 state aid granted.

Tex., Wharton—Wharton County and State Highway Comm., Austin, plan steel and conc. bridge across Colorado River, Highway No. 12; awaiting permit from War Dept., Washington.

Virginia—Virginia Highway Comm. receives bids for 2 bridges. See Roads, Streets, Paving.

Va., City Point, Hopewell—State Highway Comm., Richmond, completing plans for bridge over James River, City Point, in connection with proposed ferry to Richmond via Charles City.

Virginia—State Highway Comm., received low bids for 3 bridges. See Roads, Streets, Paving.

West Virginia—State Road Comm., Charleston, receives bids Oct. 8, for 3 bridges: Jackson County—2 standard slab rein. conc. bridges, 30-ft. span, 30-ft. roadway, north of Kenna, State Route No. 2; Braxton County—30-ft. span, conc. arch, Lower Mills Bridge No. 1095.

Contracts Awarded

Ark., Garland City—Virginia Bridge & Iron Co., Madison Ave., N. E., Roanoke, Va., has contract for 1100 tons steel structures for bridge over Red River; Kansas City Bridge Co., 510 Orear-Leslie Bldg., has contract for construction.

Fla., Pensacola—Concrete Steel Co., 1009 Fifth Ave., S., Birmingham, Ala., has contract for steel for Pensacola Bay Bridge; Northwest Florida Corp., has contract for construction. 8-15

Ky., Augusta—E. M. Elliott, Pres., American Toll Properties Co., Equitable Bldg., Baltimore, Md., has franchise for construction of vehicular Augusta-Boude's Ferry Bridge across Ohio River, Augusta; reported, will take up work in Oct.; cost about \$1,400,000.

Md., Kensington—American Bridge Co., 30 Church St., New York, has contract for 450 tons fabricated struct. steel, for bridge over tracks of B. & O. R. R., at Kensington; Montgomery County; Southern Maryland Construction Co., 14 E. Lexington St., Baltimore, has contract for construction. 9-19

Md., West Annapolis—Mullan Construction Co., 3945 Greenmount Ave., Baltimore, has contract for bridges over Rock Hold Creek and over Tracey's Creek, Anne Arundel County. 9-12

N. C., Greensboro—Guilford County let contract to Carolina Steel & Iron Co., for 165 tons struct. shapes, for bridges.

N. C., Millboro—Virginia Bridge & Iron Co., Madison Ave., N. E., Roanoke, Va., has contract for 175 tons steel structures for highway bridge in Millboro; Atlantic Bridge Co., Jefferson Bldg., Greensboro, has contract for construction.

W. Va., Gorman—E. R. Mills, Charleston, has contract, \$18,829, for substructure, and \$44,214, for superstructure for interstate bridge over north branch Potomac River, Gorman, on Western Maryland Ry., between West Virginia and Maryland.

W. Va., Wheeling—Ohio County Commrs., D. A. Taylor, Clk., let contract to H. L. Seabright Co., 43rd & McCulloch Sts., Wheeling, \$88,482, for conc. bridge over Caldwell Run; Walter Stegman, Engr. 9-12

Canning and Packing Plants

Fla., Palatka—Southern Potato Products Co., B. C. Pearce, Sec.-Treas., reported, interested in establishing potato plant, daily capacity 20,000 cans, either Palatka or E. Palatka.

Miss., Meridian—S. H. Howard, Sec., Chamber of Commerce, reported, negotiating with outside capitalists for canning plant.

Clayworking Plants

Tex., Dallas—R. D. Harry, Dallas, reported, interested in erection of plant for manufacture face brick at Irving, near here; will organize company with \$80,000 capital; has tract of 60 acres; initial output 20,000 face brick; operate with natural gas from lines of Lone Star Gas Co.

Coal Mines and Coke Ovens

Mo., Perry—Perry Hannibal Coal Co., H. J. Whetsel, Pres., will develop 1000 acres, daily output of mines 500 to 800 tons; machinery contracted for. 9-19

Cotton Compresses and Gins

Ark., Forrest City—E. E. Horton acquired Horton & Dillon gin; operate as Newcastle Gin Co.

Ark., Pine Bluff—Federal Compress & Warehouse Co., Cotton Exchange Bldg., Little Rock, reported, acquired Pine Bluff Compress & Warehouse Co.'s properties in city.

La., Erath—Peoples Gin, Inc., chartered; J. M. Segura, Espera Broussard.

La., Gibsland—Hammers Gin Service, Inc., capital \$25,000, chartered; W. L. Hammer, E. W. Merritt.

N. C., Gulf—Gulf Gin Co., capital \$25,000, incorporated; J. M. Mviver, Jr., Gulf; E. G. McIver, Durham.

Okla., Cyril—Hamilton Gin Co. incorporated; B. V. Hamilton, Fletcher.

Okla., Dill City—Dill City Gin Co. incorporated; J. A. Allums.

Okla., Elgin—Elgin Gin Co. incorporated; A. L. Thornton, Chickasha.

Okla., Fletcher—Nichols Gin Co. incorporated; A. L. Thornton, J. B. Wootten.

Okla., Foss—White Gin Co. incorporated; T. M. White.

Okla., Ninnekah—Ninnekah Gin Co. incorporated; J. F. Bird.

Okla., Norge—Norge Gin Co. incorporated; A. L. Thornton, Chickasha.

Okla., Pauls Valley—Pauls Valley Gin Co. incorporated; G. W. Gray.

Okla., Sterling—Pannell Gin Co. incorporated; J. B. Wootten, Chickasha.

Okla., Tabler—Tabler Gin Co. incorporated; A. L. Thornton, Chickasha.

Tex., Garden Valley—Garden Valley Gin Co. incorporated; I. J. Hall, L. W. Pierce.

Tex., Jacksonville—Newton & Wallace Gin Co. incorporated; Perry Wallace, Fleming Newton.

Tex., Knott—Farmers Co-Operative Gin & Supply Co., incorporated; H. Shortes, Earl Castle.

Tex., Rule—Harrison & Head Gin Co., capital \$25,000, incorporated; D. H. Head, W. L. Harrison.

Cottonseed-Oil Mills

Ala., Cullman—Southern Cotton Oil Co., erecting \$30,000 warehouse; equip with modern cotton handling mch.

Drainage, Dredging and Irrigation

Ark., Jonesboro—Commrs., Drainage Dist. 31, Craighead County, G. W. Webb, Dist. Engr., American Trust Bldg., let contract to J. S. Kochtitsky, Jr., England, Ark., at \$11,621, for 3 ditches, 106,500 cu. yd. excavation. 8-15

Louisiana—Bd. of State Engrs., New Courthouse Bldg., let contract to McWilliams Dredging Co., Canal Bk. Bldg., at 10.89 cents per cu. yd. for constructing Bayou Roundaway Diversion Canal, Madison Parish, approx. 360,000 cu. yd. (See New Orleans, 8-29.)

Okla., Arcadia—Coon Creek Drainage Dist. 1, Oklahoma County, making preliminary surveys for 7 mi. drainage ditches, cost about \$30,000; J. S. James, Engr., Court House, Oklahoma City.

Okla., Luther—Deer Creek Drainage District, Oklahoma County, has preliminary plans for 5 mi. drainage ditches, to cost about \$30,000; H. J. Wilkins, Engr., 1819 W. 9th St., Oklahoma City.

Tex., Brownsville—Cameron County Water Improvement Dist. No. 15, Annie Orr Houghton, Sec., votes Oct. 16 on \$199,000 bond issue for irrigation.

Tex., Brownsville—Cameron County Water Improvement Dist. No. 14, P. O. Box No. 31, reported, plans voting soon on approx. \$1,500,000 bond issue for irrigation work.

Tex., Hidalgo—Hidalgo County Water Improvement Dist. 6, Edinburg, let contract to R. W. Briggs & Co., Pharr, for concrete work on installing irrigation system on 10,000-acre tract; to T. Hester, Donna, for earthwork; total est. \$875,000; A. Tamm, Engr., Harlingen. (See Rio Hondo, 8-22)

Tex., Houston—War Dept., Washington, D. C., appropriated \$300,000 additional for maintenance work in Houston ship channel.

Tex., Texas City—War Dept., Washington, D. C., recommended enlargement of harbor at cost of about \$706,000, with \$161,000 annually for maintenance; increase width 300 to 800 ft. and southward extension of harbor 1000 ft., construct rubble mound dyke; Texas City interests to be required to contribute \$49,450 toward southward harbor extension.

Virginia—Secretary of War approved allotment of \$25,000 for river and harbor work on James River in Virginia, to be expended in making survey to determine limitation of improvement advisable and preparation of detailed estimates of costs; U. S. Engr., Norfolk, directed to proceed with survey. 5-30

Va., Norfolk—U. S. Engr. Office let contract to C. Walker Hodges Dredging Co., New Bern, N. C., for dredging 1,197,672 cu. yd. sand and mud and for rock excavation at 9.2 cents for item 1, 9.9 cents for item 2, and \$2.90 for item 3.

Electric Light and Power.

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Muscle Shoals—Tennessee Electric Power Co., Chattanooga, Tenn., plans constructing transmission line from Nashville, connecting its system on west with that of the Alabama Power Co., Birmingham; line to be connected with Muscle Shoals plant.

Alabama—General Water Works & Electric Corp., Fort Worth Club Bldg., Fort Worth, Tex., Richard S. Norris, Pres., controlled by E. H. Rollins & Co., 200 Devonshire St., Boston, and 44 Wall St., New

York, petitioned Alabama Public Service Comsn., Montgomery, for approval of merger and refinancing of River Falls Power Co., River Falls; Pea River Power Co., Troy; Andalusia Light & Power Co., Andalusia; Opp Light & Power Co., Opp; and Alabama Utilities Co.; plans consolidating 5 corporations, issue \$2,000,000 in first mortgage bonds 5000 shares of no-par preferred stock and 5000 shares of no-par common stock; companies serve in counties of Pike, Barbour, Dale, Coffee, Geneva, Covington, Monroe and Crenshaw. 5-23

Ark., Marianna — City H. M. Jackson, Mayor, considering installation of white way.

Ga., Cordele — City plans expending \$85,000 for light and power distribution system and water works improvements; plans in progress by Emmett S. Killebrew, Engr., Cordele. 9-12

Miss., McComb — Mississippi Central Power Co., R. E. Baird, Div. Engr., subsidiary of Mississippi Power & Light Co., Pine Bluff, Ark., reported, completed plans for rebuilding electrical distribution system; cost \$50,000; G. C. Rawls, Engr. in charge.

Miss., West Point — City plans installation of additional equipment at light and water plant; Burns & McDonnell Engineering Co., Engrs., Interstate Bldg., Kansas City, Mo.

Mo., Bagnell-Stone & Webster Engineering Corp., 49 Federal St., Boston, Mass., authorized to design and construct hydro-electric development on Osage River near here for Union Electric Light & Power Co., 12th and Locust Sts., St. Louis; dam will be approximately 2500 ft. long and 140 ft. high at maximum section; spillway of dam of conc. gravity type, provided with gates for flood control; lake will be formed 125 miles long and flood 55,000 acres; install six 20,000 kw. hydro-electric units in power house, together with necessary auxiliaries, low tension control, switching apparatus and step up substation; four 132,000 volt transmission lines on steel towers running from power station to St. Louis. 8-8

Mo., Galt — City, reported, let contract to Graybar Electric Co., 1644 Baltimore St., Kansas City, for \$20,000 electric light plant; Rollins Engineering Co. Engrs., Railway Exchange Bldg., Kansas City.

Mo., Joplin — City granted franchise to Empire District Electric Co. for white way system on Fourth St. and Joplin St.

Mo., Lathrop — Missouri Public Service Comn., Jefferson City, reported, authorized Missouri Power & Light Co., Jefferson City, to purchase Lathrop Light, Heat & Power Co.'s distribution system.

Mo., Salem — City, reported, let contract to J. H. Butler, Salem, for \$24,000 electric plant; contract for distribution system to M. B. Hall, Inc., 1423 Pine St., St. Louis. 3-21

N. C., Castalia — Carolina Power & Light Co., Raleigh, reported construct power line Spring Hope to Castalia; has franchise at Castalia; applied for franchise at Nashville.

Tennessee — State Railroad and Public Comsn., Nashville, reported, approved franchise of Southern Public Utilities Co., Charlotte, N. C., to build power line through Lake and Obion counties.

Tenn., Charlotte — Tennessee Electric Power Co., Chattanooga, reported, acquired Suburban Power Co., operating light and power plant.

Tenn., McMinnville — City considering erection and operation of power plant.

Tenn., Tiptonville — State Railroad and Public Utilities Comn., Nashville, reported, granted permission to Southern Public Utilities Co., Charlotte, N. C., to furnish electricity to city; acquired franchise.

Virginia — Virginia Public Service Co., Charlottesville, reported, contemplates extension of power line from Lawrenceville to Albemarle, 8 miles.

W. Va., Charleston — Public Service Comn., at hearing, reported, modified plans of New Kanawha Power Co., Carbide & Carbon Bldg., 30 R. 42nd St., and Glen Ferris, W. Va., for hydro-electric development on New River; plans call for construction of 1 dam located near Hawks' Nest, 75 ft. high, with gates 19 ft. high and 50 ft. wide. 8-8

W. Va., Logan — Appalachian Electric Power Co., Bluefield, controlled by American Gas & Electric Co., 30 Church St., New York, reported, plans expending \$475,000 for rebuilding Logan plant, install new draft fan, replace present boilers with 1964 h.p. capacity boilers; later plans additional improvements.

Fertilizer Plants

Tex., Orange — Davison-Pick Fertilizers, Inc., Whitney-Central Bldg., New Orleans, La., will lease dock to be erected by Dock Board of Orange; Elmer Heubeck, Garrett Bldg., Baltimore, Md., Engr. in charge of work; John C. Markwith, Contr., Orange. (See Miscellaneous Construction.)

Va., Alexandria — American Manganese Fertilizer Co., incorporated, capital \$550,000; Frank R. Porter, Sec., 1002 10th St., N. W., office of company 1030 Vermont Ave., N. W., Washington, D. C.; leased 6½ acres formerly owned by Virginia Shipbuilding Corp.; also leased mines near Altavista. 8-29

Va., Norfolk — J. L. Abbitt, reported, has contract for constructing \$75,000 fertilizer plant on 10 acre site for Smith-Douglas Co., both Bd. of Trade Bldg.

Flour, Feed and Meal Mills

Ga., Lakeland — Banks Lake Recreation and Power Co., reported, construct grist mill on Bank Lake.

Va., Cheriton — Stratton Grocery Co., Inc., contemplates erecting mill to grind corn meal, crack corn and mix feed. See Want Section — Machinery and Supplies.

Foundry and Machine Plants

Ala., Birmingham — Continental Gln Co., 46th St. and Fourth Ave., S., receiving bids for \$100,000 warehouse, for manufacturing plant. 9-5

Ala., Birmingham — Birmingham Stove & Range Co., Tennessee Pike, plans enlarging plant manufacturing coal and wood ranges, gas ranges, cook stoves, heaters, hollowware and grates.

Ala., Oneonta — Oneonta Forge & Screw Co., incorporated; Frank Holcombe, Pres.; A. A. Fendley, V.-Pres.; \$10,000 preferred stock issued and sold and plant will be enlarged and reorganized at once; light forgings such as turnbuckles, stub ends, harrow teeth, etc.

Md., Baltimore — Flynn & Emrich, 301 N. Holliday St., let contract to C. W. Schmidt, Hearst Tower Bldg., for extension to present building, Grantley Road and Western Maryland R. R.; work under direction of James F. Turner, of Flynn & Emrich Co. 9-5

Mo., St. Louis — Cummiskey-Clark Co., capital \$15,000, incorporated; E. J. Bingle, Clayton Rd., valves, pipes, fittings, etc.

N. C., High Point — High Point Machine & Mfg. Co., capital \$100,000, incorporated; L. U. Noland, 315 54th St., Newport News, Va.; O. L. Rowland, 1403 Montlien St., High Point.

Okla., Tulsa — Robinson Supply Co., H. E. Robinson, Pres. and Mgr., 205 W. Archer St., organized to manufacture oil field pumping equipment.

Tenn., Athens — Athens Stove Works, C. L. Williams, Gen. Mgr., plans doubling capacity of plant in 1930, now producing 125 stoves daily.

Tenn., Franklin — Allen Mfg. Co., 300 10th Ave., N., Nashville, Tenn., has plans in progress for stove plant, costing approx. \$200,000; approx. 150,000 sq. ft. floor space, steel, rein. conc. foundations, brick, tar and gravel roof, steel sash and doors, conc. floors; Robert & Co., Engrs., Bona Allen Bldg., Atlanta, Ga. 9-19

Tex., Houston — Houston Galvanizing & Plating Co., subsidiary of International Derrick & Equipment Co., Columbus, Ohio, and Los Angeles, Calif., acquired 10 acres near ship canal, and started erecting structural and galvanizing plant to manufacture complete IDECO tower and building line. (See Beaumont, 9-19.)

Tex., Houston — Houston Armature Works, A. C. Kater, Pres., 4 Preston Ave., opens bids in few days for \$40,000 plant, Prairie Ave. and Broadway; 100x150 ft., brick, hollow tile, steel joists, stone trim; Elmar H. Stube, Archt., 3940 Main St. 8-29

Tex., Houston — Hughes Tool Co., 300 Hughes St., let contract to Orange Car & Steel Co., Electric Bldg., for structural steel shop building, Hughes St. and G. H. & H. R. R.; 35x78 ft., galv. iron siding and roof, conc. floor; part of year's expansion program. 5-23

Va., Richmond — Hill Engineering Corp., incorporated; manufacture, buy, sell and deal in machinery; John H. Boccock, Mutual Bldg.

Gas and Oil Enterprises

Arkansas — Arkansas Power & Light Co., Pine Bluff, reported, construct gas system; granted franchises in Jonesboro, Searcy, Walnut Ridge and Hoxie. 8-1

Ark., Little Rock — Louisiana Oil Refining Co., Gay Building, Third and Broadway, reported, consolidate Arkansas division of company with present distribution facilities of Gay Oil Co.

Fla., Miami Beach — Gas Company of Miami Beach, Inc., Miami Beach, Baltimore, Md., office, 12 E. Lexington St., completing gas plant, to supply gas service city and surrounding territory; General Engineering & Construction Co., 12 E. Lexington St., Baltimore, Md., Contr.; sublet contract for gas machinery to Gas Machinery Co., 1900 Euclid Ave., Cleveland, O.; for holders and compression tanks to Stacey Bros. Gas Construction Co., 5535 Carthage Pige, Elmwood, Cincinnati, O. 4-11

Ky., Henderson — Jones Oil & Gas Co., capital \$110,000, incorporated; G. D. Givens, Stewart Sterling.

Ky., Martin — Martin Oil & Gas Co. increased capital to \$50,000.

La., New Orleans — Jackson Oil Co., Inc., capital \$100,000, chartered; O. L. Aubert, 2023 Carrollton St.

Miss., Natchez — Interstate Natural Gas Co., 26 Broadway, New York, local office Levy Bldg., reported, construct gas line crossing river; preliminary survey under way.

Okla., Oklahoma City — Texaco Oil Co., capital \$100,000, incorporated; W. A. Foster, 215 W. Tenth St.

N. C., Shelby — Atlantic Gas Co., Lewis Bldg., Philadelphia, Pa., reported, negotiating for gas franchise.

S. C., Aiken — Georgia Public Utilities Co., Augusta, Ga., reported, negotiating for 50-yr. gas franchise.

S. C., Greenville — Standard Oil Co., Pendleton St., constructing addition to distributing plant on Buncombe St., including \$30,000 warehouse, garage, loading station, pump house, several tanks.

Texas — Mid-Kansas Oil & Gas Co., subsidiary of Ohio Oil Co., both Findlay, Ohio, reported, erecting in conjunction with Transcontinental Oil Co., Ritz Bldg., Tulsa, Okla., gasoline plant, with handling capacity of 25,000,000 cu. ft. natural gas daily in Pecos County. 6-13

Tex., Caldwell — Charles E. Stewart, Brenham, reported, lay natural gas mains; gas to be piped from field in Washington County.

Tex., Cisco — Anderson-Drewery Corp., capital \$30,000, incorporated; J. T. Anderson, G. E. Drewery.

Tex., Dallas — Simms Oil Co., Magnolia Bldg., completing installation of heat exchangers and hot oil pumps in plant, also building absorption and stabilization plant, completion Nov. 15; approximate cost of both \$300,000; Refinery Engineers, Inc., 208 Alameda Rd., Kansas City, Mo., Engrs. 8-29

Tex., Dallas — Humble Oil & Refining Co., Huble Bldg., Houston, erect \$16,000, 1 story, brick warehouse 1900 Wall St.

Tex., Houston — Ricker Construction Co., Colorado St., granted permission to install gas mains in Pecan Park Addition.

Tex., Houston — Houston Natural Gas Co. granted permission to lay gas mains on St. Emanuel St. and Jefferson Ave.

Tex., McCamey — E. A. Landreth construct 8-in. line from McCamey to Taylor-Link pool in Pecos County, 15 mi.; erect four 80,000 bbl. tanks in Sec. 18 and ten 80,000 bbl. tanks at McCamey loading rack in Sec. 66.

Tex., Mount Pleasant — Southern Cities Distributing Co., controlled by Arkansas Natural Gas Corp., 60 Wall St., New York, and Ardis Bldg., Shreveport, La., reported, has natural gas franchise.

Tex., Mount Calm — H. M. Keeling, Sec., Chamber of Commerce, reported, interested in erection of 500 bbl. refinery.

Tex., Somerville — City, reported, granted 30 yr. natural gas franchise to Charles E. Stewart, Brenham.

W. Va., Huntington — South Penn Oil Co., W. R. Locke, Branch Mgr., erect \$18,000 office and storage building, 14th St. and Washington Ave.; 2 story, 74x52 ft.; 5 storage tanks, each 10,000 gal. capacity.

W. Va., Salem — Little Oil and Gas Co., capital \$50,000, incorporated; Walton L. Strother, A. C. Garner.

Ice and Cold-Storage Plants

Miss., Crystal Springs — Southern United Ice Co., O. C. Wykert, Mgr., subsidiary of Mid-West Utilities Co., branch headquarters Lampton Bldg., Jackson, rebuild recently burned plant.

Okla., Mangum — Crystal Ice Co. preparing plans for 500-ton ice and cold storage plant costing about \$75,000; private plans.

Tex., Mercedes — R. W. Alford, 120 W. Craig St., San Antonio, receiving bids for \$75,000 ice plant; private plans. 9-26

Tex., Paris—City voted to establish municipal ice plant. 8-29

Land Development

Ala., Mobile—C. G. Kershaw and Royce Kershaw, both Barnett Bldg., Jacksonville, Fla., reported, plan development of Dauphin Island as resort center; build fishing pier, golf course, hotel, bridge, etc.; total expenditure \$2,230,000.

Fla., Jacksonville—Charles G. Strickland, Inc., chartered; Charles K. Strickland, 2950 St. Johns Ave.

La., Lake Arthur—Lake Arthur Development Co., Inc., capital \$25,000, chartered; W. A. Miller, P. T. Reimers.

Fla. Lake Butler—Union County Farms, Inc., chartered; T. J. Townsend, J. W. Bridwell.

Fla., Winter Garden—G. T. Smith Co. incorporated; G. T. Smith, E. Smith.

La., Baton Rouge—Clair Realty Co., Inc., incorporated; Albert E. Fridge, 341 E. Blvd.

La., Monroe—D. A. Breard, Sr., Inc., capital \$150,000, chartered; D. A. Breard, Sr., 1412 River Front.

La., New Orleans—Newburger Realty Co., Inc., chartered; J. Blanc Monroe, 1116 N. O. Bank Bldg.

Md., Baltimore—O-W Realty Co., 606 Munsey Bldg., incorporated; Harry Goldberg.

Miss., McComb—City plans developing 38 acres for Central Park.

Mo., St. Louis—Lawler Realty Co., incorporated; Wm. M. Lawler, 7 N. 7th St.

Mo., St. Louis—Kaplan McGowan Co., incorporated; Nathan Kaplan, 315 N. 7th St.

N. C., Charlotte—T. M. S. Realty Corp., incorporated; P. L. McMahon, 14 Queens Rd., W.

N. C., Raleigh—J. D. Newsome, Inc., capital \$100,000, incorporated; J. D. and M. H. Newsome.

N. C., Wallace — Boney & Wells, Inc., chartered; L. W. Boney, D. L. Wells.

N. C., Winston-Salem—W. T. Gray Realty Co., capital \$100,000, incorporated; W. T. Gray, Masonic Bldg.

S. C., Greenville—City, A. C. Mann, reported, interested in golf course at airport.

Tenn., Memphis—Chemical Realty Co., incorporated; Wm. D. Kyser, Bank of Commerce & Trust Bldg.

Tenn., Nashville—Houston Realty Co., 103 Cotton States Bldg., capital \$25,000, incorporated; O. M. Houston.

Tex., Austin—City, James Garrison, Recreation Dept., plans developing 23 acres on N. Colorado River for recreation center.

Tex., Harlingen—City, Sam Botts, Mayor, reported, interested in golf course.

Tex., Harlingen—Progress Development Co., reported, negotiating for 20,000 acre tract in Hidalgo county.

Tex., Houston—Ed. J. Jarrard & Co., San Jacinto Trust Bldg., reported, acquired and will develop 60 acres in Monticello for subdivision.

Tex., Houston—Leo Dillingham, representative of Hazewood Courts, 82 Wall St., New York, local office 525 Niels Esperson Bldg., reported, develop 40 acre tract on Main Blvd. for tourist camp; erect 600 bungalows; A. C. Stimson of Stimson Engr. Co., Republic Bldg., preparing plans.

Tex., Laredo—Anthony Stefanowski & Co., 4771 Chene St., Detroit, Mich., reported, acquired 2500 acres in Webb County, with rights to use waters of Rio Grande for irrigation; develop for citrus fruits.

Tex., Mount Pleasant—A. P. Williams & Son Realty Co. develop tourist park, natatorium and store.

Tex., Odessa—C. L. Flack and associates, reported, construct 9 hole golf course.

Tex., Pharr—L. R. Bell Co., Inc., plans development subdivision on L Road; install gas, water, sewer; develop portion for citrus groves.

Lumber Enterprises

Florida—Long Leaf Lumber Co., Indian Town, reported, acquired all timber south of St. Lucie Canal in Palm Beach County, involving 75,000,000 to 80,000,000 ft. of stumpage on approx. 35,000 acres land.

La., Alexandria—Ferd Brenner Lumber Co. clearing site for rebuilding recently burned mill.

Tex., El Paso—Burton Lingo Co., First and Kansas St., acquired Sherrod Lumber Co., 1801-1808 Texas St.

Metal-Working Plants

Tex., Dallas—Atlas Metal Works, Boude, Mgr., 2001 Alamo St., erecting plant; 210x200 ft.; all-metal, covered with 24 gauge corrugated sheets, conc. floor, fireproof; erecting corrugated metal buildings for storing lumber; struc. steel being fabricated, foundation being laid, and plan actual erection to start within 2 weeks; Austin Bros., 1815 Coombs St., have contract; erect office of stucco construction, contract not let; plan completion before Jan. 1. 9-26

Mining

Missouri—Crucible Steel Co. of America, Elmira & W. 34th St., Cleveland, Ohio, acquired large interest in extensive iron ore holdings of Shenango Furnace Co., on Mesabi Ridge, St. Louis County.

Mo., St. Louis—Cherry Valley Ore Co., 608 Security Bldg.; incorporated; G. Watkins, Alton.

North Carolina—F. C. Worth, 53 W. Jackson Blvd., Chicago, Ill., acquired tract containing asbestos and fibrous enstatite and plans erecting plant soon.

Tenn., Tazewell—Tennessee Zinc Co. leasing mining lands, Strait Creek, near here, of B. C. Fugate and W. G. Yoakum; operate at once.

Tex., Beaumont—Crystal Co., capital \$20,000 chartered; Rene Breaux, 2400 Liberty St.; minerals.

Tex., Medina—J. C. Gilchrist contemplates developing potash mine, 14 mi. west of here; erect rustic rock home; owner builds.

Tex., San Antonio—Waldo Forster, 220 Montrose Ave., uncovered fine granite deposit and plans developing. See Want Section—Machinery and Supplies.

Va., Alexandria—American Manganese Fertilizer Co., Frank R. Porter, Sec., has number of mining properties containing large manganese deposits and deposits of limestone; plan manufacturing complete fertilizers at plant, South and Lee St.; officers include Albert S. Dulin, Pres.; Malcolm W. Morgan, V-Pres.; Frank R. Porter, Sec., Potomac Bank, Washington, D. C. (See Fertilizer Plants 9-26).

Va., Claremont—Claremont Marlime Co., Karl Stein, Mgr., acquired Guilford Marlime Co.; plant being overhauled.

Miscellaneous Construction

Ark., Fort Smith—Arkansas Valley Conservatory Dist., care W. K. Vaughn, City Hall, being formed by land owners; financed by government, state and property owners; construction work along Arkansas River to mouth of Grand River, reported, to cost approx. \$6,000,000; Clark E. Jacoby, Engr., Interstate Bldg., Kansas City, Mo.

Fla., Sanford—Spillway—See Bridges, Culverts, Viaducts.

Ky., Maysville—Boxley Bros. Co., Orange, Va., advises regarding contract for eliminating bridge for Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, build retaining asbestos and fibrous enstatite and trestle, walls averaging 16 ft. high, 2 abutments and 2 vehicular underground crossings; approx. 30,000 ft. conc. piling to be driven under foundations; all work by Boxley Bros. 9-19

Louisiana — Bd. of State Engrs., 213-15 New Orleans Court Bldg., let contract to H. N. Moody, 415 Perdido St., New Orleans, at \$45,660, for supplemental work of constructing permeable 3-row pile timber training structure, with foundation brush mattress to protect river bank in Bossier Parish, Red River, Honore Bend, approx. 1000 lin. ft.; being constructed by Caddo sub-levee fund and Bossier Levee Dist.

Louisiana—Bd. of State Engrs., New Courthouse Bldg., let following contracts for levee work in Fifth Louisiana Levee Dist., designated by contractor, levee, yardage: R. C. Webb, Delta, Cabin Teel Slide, 1500, at 92 cents; Wooten & Geary, Tallulah, Reid-Biggs Slide, 13,000; Wm. Junkin, Natchez, Miss., Aquasco sub-levee, 17,000; A. P. Sures, Lake Providence, O'Possum Point sub-levee, 12,000; all bids rejected on Vidalia Wave-Wash, 11,000 cu. yd.; Arnauldia Wave Wash, 8000 cu. yd., and Delta Point Wave Wash, 2000 cu. yd. 9-19

Louisiana—U. S. Engr. Office, foot of Prytania St., let following contracts for \$19,000 cu. yd. earthwork, straight contracts, Atchafalaya River levees, designated by name,

yardage, contractor, price: Foster, 198,000, Dameron & Kenyon, Inc., Port Allen, La., 15.45 cents; Melville South, 300,000, Adams-Gravolet Construction Co., Point a la Hache, 15.97 cents; Red Cross South, 320,000, O. O. Ogden, Baton Rouge, 15.74 cents. 8-22

La., Lake Charles—Lake Charles Harbor & Terminal Dist. let contract to Knapp & East, Kaufman Bldg., Lake Charles, for steel wharf shed annex complete at \$19,000; Elmer E. Shotts, Engr., 921½ Ryan St. 9-5

La., Lake Charles — Harbor & Terminal Comm. let contract to Frank Hebert, Lake Charles, at \$18,350 for steel shed at port; 120x140 ft.

La., New Orleans—Virginia Bridge & Iron Co., P. O. Drawer 925, Roanoke, Va., has contract for 100 tons steel for Bonnet Carre Spillway service bridges for U. S. Engr. Office, foot of Prytania St.; Doullut & Ewin, Inc., Gen. Contrs., Queen and Crescent Bldg. 8-15

Md., Baltimore—Municipal Art Society having preliminary sketch make by Hans Schuler, 6 E. Lafayette Ave., for statue in honor of Johns Hopkins; tentative site selected, Charles and 34th St.; pylon, 26 ft. mounted with bust, with figures at base; stone and bronze. 6-20

Md., Curtis Bay, Baltimore—U. S. Coast Guard Headquarters, Washington, D. C., opens bids Oct. 11 for constructing steel sheet pile bulkhead, U. S. Coast Guard depot; opens bids Oct. 9 for steel sheet pile bulkhead.

Mississippi—U. S. Engr. Office, P. O. Box 667, let contract to Brown-Dennison & Co., Memphis, Tenn., at \$19,766, for 46,889 cu. yd. levee work, Panola Quitman Drainage Dist.

Miss., Holly Springs—J. T. Wade, Clk., Bd. of Supervisors of Marshall County, opens bids Oct. 8 for levee on Victoria and Mack Road, Dist. No. 1; levee in Cuffaw Bottom on Old Wall Hill and Tolly Springs Road, Dist. No. 4; 270-ft. pile bridge across Coldwater River between Taska and Red Banks, Dist. No. 2.

Miss., McComb—City preparing preliminary plans to convert 40-acre tract, West McComb, recently authorized to be acquired, into park; construct modern swimming pool, erect band stand and move firemen's zoo to park.

Missouri—U. S. Engr. Office, McCall Bldg., Memphis, Tenn., opens bids Oct. 8 for constructing approx. 655 lin. ft. permeable crib dikes in repairing 3 existing dikes, in Mississippi River, vicinity of Baders (121-122R below Cairo).

Mo., Chillicothe—Park Bd., F. M. Gill, Pres., let contract to S. E. Schultz, Chillicothe, at \$21,125, for swimming pool; Wesley Binz, Engr., 116½ N. Washington Ave., Lansing, Mich. 7-25

Okla., Oklahoma City — City, Walter C. Dean, Mayor, having report prepared for flood control on North Fork of Canadian River; Hawley & Freese, 411 Capps Bldg., Fort Worth, Tex., and D. W. Mead, State Journal Bldg. Madison, Wis., Asso. Conslt. Engr.

Okla., Oklahoma City—Chicago, Rock Island & Pacific R. R. Co., W. H. Petersen, Ch. Engr., Chicago, Ill., let contract to T. E. Wiggins, 1508 Classen St., at \$26,000 for hydraulic dredge fill in 500,000 cu. yd. embankment.

Tenn., Memphis—U. S. Engr. Office, McCall Bldg., opens bids Oct. 21 for constructing about 2500 cu. yd. earthwork in W. W. Brown Private Levee, Neosho River, near Burlington, Kansas.

Tex., Houston—Comms. Court has low bid from Charles S. Basham & Sons, 2811 San Jacinto St., at \$11,258.53, for retaining wall along Buffalo Bayou bank, Harris County's part of City's flood prevention program; 250 ft. long, 2 ft. thick; drive steel sheeting into bank to point about 12 ft. below bottom of quicksands, topped with 3-ft., conc. wall; C. R. Haile, County Engr.

Tex., Orange—Wharf and Dock Comm. let contract to John C. Markwith, Orange, for erecting additional warehouse at wharf; 72 x90 ft. 8-22

Tex., Point Isabel—Bd. of Army Engrs., Washington, D. C., approved plans for San Benito-Point Isabel Navigation Dist., Ed Downs, Chmn., for constructing deep-water port at Point Isabel; dredge channel, Point Isabel port to Brownsville, approx. 20 mi.; district now issue and sell \$500,000 bond issue already voted. (See Brazos, 9-26.)

Tex., San Antonio—City, C. M. Chambers, Mayor, opens bids Oct. 21 for flood prevention work, Nueva to Martinez St.; channel 120 ft. wide, conc. lined; Palu Stiffer, Street Commr.; Hawley & Freese, Engr., Frost Natl. Bank Bldg. 9-19

W. Va., Romney — West Virginia Fish Comm., Charleston, acquired 30-acre track, Burch Grove, on Morgan-Hampshire line, 15 mi. from here, as site for fish hatchery; start work now.

Miscellaneous Enterprises

Ala., Dothan—Dothan Eagle, Horace Hall, Editor, let contract to A. J. Honneycutt Co., Martin Bldg., Birmingham, for newspaper building; 3 stories, conc. footings, brick, tile, comp. roof, stone trim; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham. 8-29

Ala., Ramer—Ramer Industrial Club, R. F. Cowles, Sec., interested in establishing garment plant.

Ark., Little Rock—Glick Laundries, R. H. Burtz, Sec., 207 Cedar St., acquired property formerly occupied by Rose City Laundry, 1000 W. Markham St., and begin operation at once; expend \$50,000 for improvements.

Ark., Pine Bluff—Koberlein's Bakery, William Koberlein, 210 Walnut St., erect 2-story annex facing on West Second Ave.

D. C., Washington—Tolman Laundry Co., 499 C St., N. W., applied for permit to erect laundry plant, 4310 Wisconsin Ave.; 1 and 2 story, steel, brick, conc.; Austin Co., Gen. Contr., 120 Broadway, New York.

Fla., Davenport—Otto F. Zangen ordered special machinery for punching, bending and shearing heavy steel braces, to be used in connection with manufacture of sectional slat shade houses; plans under way for plant at Davenport Terminals.

Fla., Tampa—U. S. Phosphoric Products Corp., Ruskin Rd., reported, will let contract to G. A. Hanson Co., Inc., 215 Madison St., for office building. 8-8

Ga., Atlanta—White Provision Co., Howell Mill Road and 14th St., N. W., let contract to Smith & Williams, 435 Irwin St., N. E., for packing plant addition; 5 stories, 100x100 ft., rein. conc., brick, comp. roof; H. Peter Henschien, Archt., 1637 Prairie Ave., Chicago, Ill.

Ga., Atlanta—Maury-Cole Co., A. E. Wehmeyer, V.-Pres., 400 Tennessee St., Memphis, Tenn., food products manufacturers, acquired Temple Garden Tea Co.; plans increase manufacturing capacity to include Canova line of food products.

Ga., Atlanta—Lambert & Collier, 343 Eighth St., N. E., low bidders for excavating Hemphill Ave., site proposed tire plant for B. F. Goodrich Rubber Co., Akron, Ohio; McDonald & Co., Engrs., Southeastern Trust Co. Bldg.; Robert S. Fiske, Consol. Engr., Healey Bldg. 9-19

Ga., Edison—Edison Oil Co. merged with Columbian Peanut Co., with plants in several towns in section; T. N. Hendricks to continue as manager; D. J. Tomko to have charge of Columbian Peanut Co.

Ga., Macon—Happ Bros. Co., 674 Broadway, garment manufacturers, plan erecting plant; 4 story, mill construction, 40x150 ft.; F. Joe Bishop to supervise construction. 9-26

Ga., Moultrie—J. R. Hall let contract to Huber Construction Co., Moultrie, for laundry; 2 units, brick, 44x75, and 30x47, sheet iron; conc. footings, conc. floors, comp. roof; Moultrie Laundry & Dry Cleaning Co., Inc., Lessee; owner, Archt.

Ga., Savannah—Leroi Patent Cup Co., Louis Leroi, Pres., manufacturers of turpentine cups for naval stores industry, establish new unit at local plant, increasing output to 50,000 cups daily.

Ky., Harlan—Keyless Lock Co., Capital \$25,000, incorporated; G. Sigismondo, Angelo Meccia.

Ky., Louisville—General Baking Co., 342 Madison Ave., New York, reported, let contract to Struck Construction Co., 147 N. Clay St., for bakery addition. 7-18

La., Monroe—Brown Paper Mill Co., Inc., H. L. Brown, Pres., let contract to Layne-Louisiana Co., S. O. Scoggins, Mgr., Lake Charles, at \$81,250, for increasing water capacity of mill 5000 to 6000 bbl. daily; drill about 6 wells.

La., New Orleans—Recently organized Mississippi Valley Barge Line Co., Phil G. Stafford, Traffic Representative, 1038 Planters Bldg., St. Louis, Mo., applied to Interstate Commerce Comm. and Louisiana Public Service Comm. for authority to operate on Ohio and Mississippi Rivers as common carrier between Cincinnati, Ohio, and Cairo, Ill., and on Mississippi, Cairo to New Orleans.

La., New Orleans—Sugar By-Products Co., organized with R. E. Blouin, Pres., 7407 Bordeaux St., to manufacture sugar cane by-products; soon establish \$500,000 plant; M. F. Thomson, Sec.-Treas.

La., New Orleans—Engineering—McWilliams Corp., capital \$100,000, incorporated; Edward Haspel, 34 Audubon Blvd.

La., Shreveport—Shreveport Laundries, Inc., let contract to K. C. Wilson, Slattery Bldg., for laundry, Howell and Common Sts., at approx. \$75,000; 1 and 2 stories, brick, conc., steel, 166x180 ft., white stucco; let contract in few days for machinery installations; Jones, Roessle, Olschner & Wiener, Archts., Ardis Bldg. 9-12

La., Shreveport—Shreveport-Dr. Pepper Bottling Co., capital \$25,000, incorporated; R. B. Schlater, Greenwood, Miss.; B. D. Hogue, Shreveport.

La., Turkey Creek—Belle Chaney Sand & Gravel Co., Inc., capital \$30,000, chartered; Jesse P. Barnett, Opelousas; Albert Tate, Ville Platte.

Maryland—State Conservation Dept., Sweeney Earle, Conservation Commr., Munsey Bldg., Baltimore, considering sites at Crisfield, Cambridge and elsewhere, for biological laboratory for experimenting on marine life.

Md., Baltimore—Julien P. Friez & Sons, Inc., 4 N. Central Ave., subsidiary of Consolidated Instrument Co. of America, 41 E. 42nd St., New York, having preliminary plans drawn by Edward H. Glidden, American Bldg., for addition to plant to manufacture weather and airplane instruments; 3 story, fireproof constr., approx. 100x65 ft.; raise present building and grade site to street level; no architect selected for final plans. 9-19

Md., Baltimore—Construction—G. W. Schoenhals & Co., Inc., 1223 Munsey Bldg., chartered; George W. Schoenhals.

Md., Baltimore—Excavating and Grading—Edward E. Stafford Co., 4000 Benninghaus Rd., incorporated; Edward E. Stafford, Baltimore; C. Walter Cole, Towson.

Md., Baltimore—Consolidation Coal Co., R. Kinnarid, Fidelity Bldg., let contract to C. W. Schmidt, Hearst Tower Bldg., for \$10,000 office and scale house, 801 S. Carey St.; 1 story brick; W. L. Doolittle, Engr., Thurmond, W. Va.

Md., Baltimore—Bobro Bros., Inc., Philadelphia, Pa., cigar manufacturers, leased third floor of factory, 2639 Boston St., including 12,000 sq. ft., for branch manufacturing plant; employ about 200; occupy Oct. 1.

Md., Chevy Chase—Building—Bandar Corp., 6800 45th St., incorporated; William V. Boyle, Evans Bldg., Washington, D. C.; Sam A. Syme, Chevy Chase.

Md., Elkridge, Baltimore—Charles R. Harman, Inc., chartered; Charles R. Harman, Charles A. Rawles; deal in sand, gravel and clay products.

Miss., Clarksdale—Clarksdale Orange Crush Bottling Co., capital \$15,000, incorporated; Ed. C. Brewer, E. L. Pittman.

Miss., Greenville—Chicago Mill & Lumber Corp., care Wm. Mahan, Mgr., taking bids, no date set for closing, for mill building; boiler house, rein. conc., 1 story, 49x57 ft.; fuel room, rein. conc., 1 story, 57x34 ft., corrugated iron roof, steel trusses, misc. steel and iron.

Miss., Laurel—Ingalls Iron Works Co., Inc., Birmingham, reported, has contract for 150 tons struc. steel for addition to plant of Masonite Corp. (Structural Insulation), 111 W. Washington St., Chicago, Ill. 8-8

Miss., Natchez—A. Fultz considering establishing shirt plant, possibly here.

Mo., Columbia—Tribune Publishing Co., capital \$50,000, incorporated; E. M. Watson, H. J. Waters.

Mo., Kansas City—Warner Quality Laundry Co., capital \$15,000, incorporated; Chas. D. Robinson, 3237 Benton St.

Mo., Kansas City—Car-Record Co., incorporated; Eugene H. Souter, 800 Waldo St.; manufacture attachment for automobiles.

Mo., Kansas City—Goodenow Textiles Co., Goodknit Bldg., erect \$18,000 plant, S. Main St., to manufacture men's undergarments; 3 story, 40,000 sq. ft. floor space; S. B. Tarbet, Archt. (See Textile Mills 9-26)

Mo., St. Louis—Morgan Dry Cleaning Co., capital \$10,000, incorporated; A. A. Allina, 725 Harvard St., St. Louis.

Mo., St. Louis—Powell Hat Mfg. Co., capital \$20,000, incorporated; Nat. Powell, 1235 Washington St.

Mo., St. Louis—White Baking Co., 3991 Papin St., let contract to Woermann Construction Co., Syndicate Trust Bldg., for \$13,000 addition to bakery, 4015-29 Papin St.; 1 story; owner, Archt.

Mo., St. Louis—O. D. Laboratories, Inc., capital \$250,000, chartered; Edward G. Belz, 6411 S. Kingshighway.

Mo., St. Louis—Carter Carburetor Co., 2838 N. Spring St., has permit for \$25,000 plant addition, 2438 N. Spring St.; 2 story, 50x22x45x43 ft., comp. roof, brick; Martin Engineering Co., Archt., Syndicate Tr. Bldg.; Fruin-Colnon Contracting Co., Gen. Contr., Merchants-Laclede Bldg.

Mo., St. Louis—Construction, Contracting, etc.—R. J. Blackburn, Inc., capital \$100,000, chartered; R. J. Blackburn, 344 Plant St.

N. C., Asheville—Dairymen's Creamery, Inc., capital \$100,000, chartered; M. J. Rhodes, J. T. Roberts, Biltmore.

N. C., Reidsville—American Tobacco Co., 111 Fifth Ave., New York, reported, let contract to Fiske-Carter Construction Co., Masonic Temple Bldg., Greenville, S. C., for addition to plant; 4 stories and basement, adding 55,500 sq. ft. floor space to leaf tobacco department; upon completion, remodel and enlarge present quarters of leaf department; reported, plans increasing main cigarette department to capacity of 100,000,000 cigarettes daily. 9-26

N. C., Wilmington—R. W. Page Corp., owners of Wilmington Morning Star, acquired Evening News Dispatch.

Okla., Guthrie—Fairmont Creamery Co., L. E. Hurtz, Sec., let contract to A. E. Skouby, Guthrie, for \$100,000 addition to plant; plumbing contract let to Benson & Farrar; wiring, Mater Electric Co.; plans by F. V. Thomas, company's Archt., Omaha, Neb. 9-5

Okla., Poteau—Eastern Oklahoma Publishing Co., Gould Moore, Pres., acquired LeFlore County Sun, weekly newspaper.

Okla., Tulsa—Smith Sand Co., capital \$20,000, incorporated; Ivan Stewart, 739 S. Phoenix St.

Okla., Tulsa—Quality Dairy Products Corp., capital \$300,000, incorporated; W. M. Hawk, 328 N. Santa Fe St.

N. C., Charlotte—W. H. Twitty, Blandwood Apts., let contract to J. P. Little & Son, Builders Bldg., for film exchange; Metro-Goldwyn-Mayer, Lessee, 1540 Broadway, New York. 8-29

N. C., Durham—Krexene Laboratories, Inc., chartered; W. G. Pearson, 702 Fayetteville St.

Okla., Tulsa—L. S. Randolph, Philtower, let contract to Erbacher & Curtis, Central Natl. Bank Bldg., at \$18,000 for laundry, 1922 S. Lewis Ave.; Frank C. Walter, Archt., Central Natl. Bank Bldg. 9-12

Tenn., Alcoa—Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa., reported, erect 360-ft. steel and brick addition to shipping building at sheet mill; started excavation. 4-25

Tenn., Kingsport—Blue Ridge Glass Corp., erecting warehouse at plant; approx. 100x100 ft., serve as storage house for products; Converse Bridge & Steel Co., 2408 Vance Ave., Chattanooga, has contract for steel frame work; construction started, to be complete by Oct. 15.

Tenn., Kingsport—Tennessee Eastman Corp., James C. White, Gen. Supt., let contract to Gauger-Korsmo Construction Co., Fidelity Bank Bldg., Memphis, for filter building, conc. work for clear water well and coagulation basin for filtration plant, in connection with cellulose acetate plant; filtration plant to have capacity of 2,500,000 gal. daily; building, brick, conc., 120x80 ft.; coagulation basin and well of concrete; Virginia Bridge & Iron Co., Roanoke, Va., has contract for steel frame work of acid recovery building, 106x78 ft., divided into two sections, 1 story, and 108 ft. high; Weideman & Singleton, Consol. Engr., Candler Bldg., Atlanta, Ga. 8-22

Tenn., Knoxville—Columbia Marble Co., capital \$300,000, incorporated; B. F. Coggins, W. S. Burton.

Tenn., Memphis—Kroger Grocery & Baking Co. erect \$500,000 bakery and sausage plant early in 1930; bids to be received about Jan. 1; C. R. Wagener, Engr.

Tenn., Memphis—Plough, Inc., has low bids from National Construction Co., Glenn Bldg., Atlanta, Ga., and S. & W. Construction Co., Shrine Bldg., Memphis, for \$1,000,000 chemical plant; Jackson & Moreland, Engr., 31st & St. James Ave., Boston, Mass.; Harker & Cairns, Archt., Court Square Bldg., Memphis. 9-12

Tenn., Memphis—Virginia Bridge & Iron Co., P. O. Drawer 925, Roanoke, Va., has contract for 350 tons steel for pulp plant of Buckeye Cotton Oil Co., Gwynne Bldg., care Purchasing Dept., E. J. Whitecher, Cincinnati, Ohio; Robert & Co., Engrs., Bona Allen Bldg., Atlanta, Ga. 9-26

Tenn., Memphis—Burton-Dixie Mfg. Corp., 2024 S. Racine Ave., let contract to Rock City Construction Co., 150 N. Fourth Ave., Nashville, for plant to manufacture cotton batting for automobile upholstery; E. A. Devin Construction Co. started grading site; 2 buildings to have combined area of 60,000 sq. ft., 1 story, with sawtooth design roof, 1 for plant, other for concentration warehouse for cotton lint, etc.; to be completed in 60 days. 8-22

Tenn., Nashville—Southern Products Co., 1020 Carter St., capital \$10,000, incorporated; Allen K. Jordan, Robert C. Jones, Jr.; manufacture insecticides and disinfectants.

Tenn., Memphis—Guyton Stock Yard Comn. Co., capital \$10,000, incorporated; Harry Ray, 1175 Stock Yard Place.

Tex., Alice—Mistletoe Creameries let contract to J. Arthur Smith, Alice, for creamery plant; frame, stucco, 40x60 ft., Mediterranean type; Hardy & Curran, Architects, Nixon Bldg., Corpus Christi.

Tex., Alvin—Chamber of Commerce, Alvin, and George H. Bulzinger, Houston, interested in establishing hemp plant.

Tex., Austin—J. C. Pennington establish poultry packing plant; probably establish milk products plant in this connection.

Tex., Brady—Cantwell Mattress Factory, capital \$15,000, incorporated; W. D. Crothers, Curtis Norman.

Tex., El Paso—City soon call bids for installing automatic traffic control lights in downtown section and at Five Points; R. E. Thomason, Mayor.

Tex., Dublin—Dublin Creamery, Inc., W. T. Musie, Mgr., now start erecting building; 40x50 ft., brick, tile.

Tex., Galveston—Homer Thompson, 851 Courtney Drive, N. E., Atlanta, Ga., acquired Coca-Cola Bottling Works, 2319 G St.

Tex., Galveston—Hollyfield Laundry has permit for \$10,000 laundry, 1733 Westheimer St.

Tex., Goose Creek—Tribune Holding Co., E. H. Bell, Pres. and Mgr., receiving bids for \$10,000 newspaper plant; Eugene B. Church, Archt., First Natl. Bank Bldg., Houston. 8-15

Tex., Houston—Building—Humphrey & Kelly, Inc., capital \$10,000, chartered; J. M. Kelly, 1310 Isabella St.

Tex., Houston—Rogers Asbestos Co., Inc., E. M. Rogers, Pres., 720 W. Fifth St., erecting addition to plant. (See Amarillo, 9-5.)

Tex., La Grange—F. C. Pennington Produce Co., Sulphur Springs, open branch about Oct. 15; equip to handle poultry, eggs, etc.

Tex., Mt. Pleasant—Texas Milk Products Co., D. B. Short, Mgr., soon let contract for powdered milk plant; plans beginning operation by February, 1930. 8-1

Tex., Newton—S. W. Adams acquired Newton Independent; moved large and modern plant here.

Tex., Orange—Carrier Engineering Corp., M. S. Smith, V. Pres., 850 Freylinhuysen Ave., Newark, N. J., advises regarding erection of plant to dry green furs for Orange-Cameron Land Co., have contract for installation of dryer but do not have charge of general building. 9-26

Tex., Wichita Falls—Industrial Naphtha & Solvent Co., capital \$10,000, incorporated; W. C. Duncan, Waggoner Bldg.

Va., Big Island—Virginia Bridge & Iron Co., P. O. Drawer 925, has contract for 200 tons steel for power house of Bedford Pulp & Paper Co.

Va., Blackstone—R. W. Tuggle & Son, Inc., capital \$50,000, chartered; leaf tobacco dealer; W. G. Suhling, Jr.

Va., Newport News—Horace E. Dodge Boat & Plane Corp., Horace E. Dodge, Pres., 3 E. 52nd St., New York, have plans out for bids Oct. 6, to be received until Oct. 19, for first unit of plant manufacture mahogany and steel runabouts, cruisers, flying boats and amphibian airplanes; 127,000 sq. ft., brick, steel, conc. docks; Philip Lindsley Small & Associates, Archt., Terminal Tower, Cleveland, Ohio.

Va., Richmond—American Tobacco Co., 111 Fifth Ave., New York, reported, considering large addition to cigarette manufacturing facilities; expend \$20,000 for new shipping department; tentative designs submitted by J. E. Sirrine, Greenville, S. C.

Va., Richmond—P. Lorillard Co., 2300 E. Cary St., expend about \$20,000 for additional warehouse space at Whitlock branch.

W. Va., Huntington—International Nickel Co., Arthur S. Shoffstall, Gen. Mgr., 67 Wall St., New York, let contract to Hatfield Construction Co., 722 14th St., for 2 new units to

plant, to house machinery and equipment of American Mond Nickel Co., Clearfield, Pa., recently acquired subsidiary of Mond Nickel Co., Ltd.; larger unit, 158x400 ft., to be cold drawn department of plant; steel on ground at Clearfield, to be reshipped here; started grading, filling and concrete work; plant beginning operations about Jan. 1.

Motor Bus Lines and Terminals

Kl., Erlanger (Br. of Covington) — Ohio Valley Coach Co., capital \$10,000, incorporated; A. B. Rouse, Laura Frances Dempsey.

Ky., Louisville — Diamond Taxicab Co., capital \$10,000, incorporated; O. Graham Pickrell, 2101 Sherwood St.

La., Shreveport—Leonard Truck Lines, Inc., capital \$20,000, chartered; W. P. Leonard, 1624 Fairfield Ave.

Mo., Harrisonville—Brown Bros. Bus Lines, Inc., capital \$18,000, chartered; Charles L. Brown.

Mo., Kansas City—Interstate Transportation Co., subsidiary of Union Pacific System, Carl R. Gray, Pres., Omaha, Neb., applied to Public Service Comn. for permit to operate busses between Kansas City and St. Louis.

Okla., Oklahoma City—Joe Hodges, 800 E. Archer St., Tulsa, authorized by Corporation Comn. to operate Class A freight line, Oklahoma City to Tulsa via Guthrie.

Tenn., Nashville—Consolidated Bus Lines authorized by Railroad and Public Utilities Comn. to operate double-daily service between Nashville and Knoxville via Lebanon, Smithville, Sparta, Rockwood, Harriman, Oliver Springs and Clinton; M. A. Henry to operate line, Nashville to point on Central Pike and to P. L. and H. P. Carver over same route; Shorty's Taxicab Co., operate between Dyersburg and Lenox via Finley.

West Virginia—State Road Comn. approved assignment of bus permit held by Pioneer Stages, Inc., to Greyhound Lines, Inc., Wheeling, authorizing operation of bus lines, Wheeling to Pennsylvania State line; Meyer Transportation Co., Romney, authorized to operate line, Maryland State line at Gormanville to Romney.

Motor Cars, Garages, Filling Stations

Ark., Lewisville—Davis Motor Co., Inc., capital \$50,000, chartered; W. M. Davis.

Fla., Inverness—Citrus Motor Co., F. C. Hancock, Main St., let contract to S. A. Plumer, Brooksville, for storage garage; 50x100 ft., 1 story, conc. floor, comp. and metal roof. 8-8

Fla., Jacksonville — R. A. Green started erecting auto laundry and filling station, Temple Ave.; Seaboard Oil Co., Lynch Bldg., and Frank Carpenter, Lessees; Frank Carpenter maintain complete car washing and greasing plant.

Fla., Miami Beach—Earle Estate, care W. S. Buchanan, Agt., Spanish Village, Miami Beach, let contract to Wm. F. Bonsack, 1659 Alton Road, for store building and auto sales room; 1 story, conc. block, rein. conc., tile and terrazzo floors, plate glass front; to be used as Cadillac & LaSalle automobile salon.

Fla., Miami—Gray Line Sightseeing Tours, Inc., chartered; J. C. Campbell.

Ga., Atlanta—Dr. J. Cosby Swanson, 478 Peachtree St., N. E., let contract to W. F. Converse & Co., Bona Allen Bldg., at \$16,445, for tire building, Spring and Alexander St.; 1 story and basement, 80x110 ft., conc. footings, brick, sprinkler system, tar and gravel roof, conc. floors, steel, steel sash and doors.

Ga., Brunswick—Coastal Holding Co., Inc., will erect Chevrolet showroom and service building to cost \$33,500 with equipment; 1 story, 90x180 ft., brick, steel girders, conc. and terrazzo floors, built-up, Johns-Manville roof; L. A. Miller, Archt., New Castle St. 9-26

Ga., Savannah—American Oil Co. let contract to Dudley C. Hull, Blum Bldg., for filling station, Bay and W. Broad St.; brick, stucco, hollow tile, stone columns, steel beams, tile roof, conc. floors, 1 story and basement, 46x37 ft.

Ga., Swainsboro — American Oil Co. let contract to J. A. Coleman, Jr., for filling station, W. Court St.; brick, hollow tile, conc. floors, steel beams, tile roof.

Ky., Lexington—Lexington Storage Garage, Marmon-Roosevelt dealer, add 2 stories to present structure.

Ky., Madisonville — Cooke Chevrolet Co., capital \$20,000, incorporated; V. V. Cooke.

La., Alexandria—Standard Auto Parts & Machine Co., Inc., capital \$10,000, chartered; R. B. Miles, Thomas F. Adams.

La., Jena—Jena Motors, Inc., capital \$15,000, chartered; Frank Benton, A. J. Fortson.

La., New Orleans—J. A. Bunol, 2540 Canal St., plans erecting \$10,000 automobile paint shop, 125 S. Dorgenis St.; 90x25 ft., brick, steel, corrugated asbestos roof; O. P. Mohr, Archt., Canal Bank Bldg.

La., Sulphur—Ellender's Service Station, Inc., capital \$15,000, chartered; Ernest Ellender.

Md., Salisbury—Firestone Service Stores, Inc., chartered; Harry L. Jones, Frederick; motor vehicles and accessories; Harry L. Jones, Frederick W. C. Webb.

Miss., Durant—Louisiana Oil Corp., First Natl. Bank Bldg., Shreveport, let contract to Tom Reed, Beloni, for service station, Jackson St.; brick, modern improvements.

Miss., Gulfport—E. J. Arceneaux soon let contract for service station, Court and S. Beach Blvd.; to be completed by Nov. 1.

Mo., Kansas City—Kansas City Auto Laundry Co., 3001 Gillham Rd., capital \$25,000, incorporated; J. F. Koup.

Mo., Poplar Bluff — B. F. Davenport let contract to A. W. Greer at \$22,000 for filling station and tire salesroom, Poplar and Moran St.; 1 story and basement, brick, stucco, tile roof, conc. and wood floors; private plans.

Mo., Poplar Bluff—J. C. Owen contemplates erecting tire-battery station, Fifth and Oak St.; 1 story, fireproof; Ideal Tire Co., Lessee.

N. C., Carthage — Carthage Motor Co., capital \$50,000, incorporated; H. G. Poole, Audrey B. Poole.

N. C., Goldsboro — Goldsboro Firestone Service Stores, Inc., capital \$50,000 chartered; R. A. Brunson, Goldsboro; R. M. Kimmel, Akron, Ohio.

N. C., High Point—Dixie Oil Co. plans erecting filling station, W. Lexington Ave., between N. Main and Long St.

N. C., Rockingham—Barkalow Motors, Inc., capital \$100,000, chartered; J. R. Barkalow, Rockingham; W. C. Wilkinson, Charlotte.

N. C., Rockingham—Garrett Motor Co., Inc., capital \$25,000, chartered; C. E. Garrett, H. D. Baldwin.

Okla., Durant — Cities Service Oil Co., Tulsa Trust Bldg., Tulsa, acquired site, Main St. and Fifth Ave., for service station to cost over \$20,000; soon start construction.

Okla., Durant—Firestone Service Stores, Inc., capital \$50,000, chartered; Robert Mahaly, Durant; R. M. Kimmel, Akron, Ohio.

Okla., Henryetta—Cities Service Oil Co., Tulsa Trust Bldg., Tulsa, contemplating super service station; 1 story, brick, tile, rein. conc.; private plans.

Okla., Konawa—Case Chevrolet Co., capital \$20,000, incorporated; Charles H. Anglin, Holdenville; E. P. Case, Konawa.

S. C., Greenville—Standard Oil Co., Weir R. Goodwin, Dist. Mgr., 700 Pendleton St., Columbia, soon erect 2 filling stations at combined cost of \$18,000.

Tenn., Dickson—Reeder Chevrolet Co., R. T. Reeder, Mgr., erect garage, E. College St.; 1 story, 120x125 ft., conc. floor, steel sash, plate glass front; owner, Archt.

Tenn., Pikeville—Rogers Motor Co., capital \$10,000, incorporated; R. A. Padgett, Wm. S. Rogers.

Tenn., Union City—Forrester Motor Co. let contract to J. T. Garrett for service station; brick, 60x75 ft.

Tex., Brownwood—McKay Motor Parts Co., capital \$10,000, incorporated; G. F. McKay, J. J. Timmins.

Tex., Fort Worth—Texas Pacific Coal & Oil Co., care F. D. Bostaph, Fort Worth Natl. Bank Bldg., started erecting \$10,000 filling station with own forces; brick, tile, 1 story, 20x20 ft.

Tex., Houston—Humble Oil & Refining Co., Humble Bldg., acquired site, Telephone Road and Dumble St.; now erect filling station.

Tex., Fort Worth—C. W. Smith Corp., capital \$25,500, incorporated; C. W. Smith, 509 Commerce St.

Tex., Jefferson—Bayou Motor Co. let contract to Shaw Tribble for automobile building; started construction, to be completed within 30 days.

Tex., San Antonio—Roth Bros., care Louis R. Roth, 311 Flores St., have low bid from A. P. Rheiner & Son, 305 Wyoming St., at \$57,777, for garage addition, N. Flores and Salina St.; from Jud & Ormond, 703 N. Flores St., at \$1,585, for plumbing; from Acme Wire & Iron Works, 1343 W. Laurel St., for fire escapes, and from Alterman-Cude Electric Co., 113 S. Flores St., for electrical work. 9-12

Tex., San Angelo—Lew Allen, Fort Worth, and Associates acquired A. & A. Motor Co., Chevrolet dealers.

Tex., San Angelo—Lewellen Motor Co., capital \$50,000, incorporated; A. M. Lewellen, W. R. Slaughter.

Va., Roanoke—Firestone Service Stores of Roanoke, Inc., capital \$50,000, chartered; S. Gordon Bickford, 518 Wycliffe Ave.

W. Va., Parkersburg—Langfitt Motor Co., capital \$50,000, incorporated; E. Carl Langfitt, 1906 20th St.

Railways

Ky., Maysville — See Miscellaneous Construction.

Ky., Millard—Levisa River R. R. Co., subsidiary of Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, Va., applied to Interstate Commerce Comm. for permission to construct 28 mi. line, Pike County, extending from connection with Chesapeake & Ohio at Millard up Levisa Fork of Big Sandy River to Kentucky-Virginia line.

Okla., Oklahoma City — See Miscellaneous Construction.

Tex., Point Isabel—Port Isabel Co., J. E. Bel, Mgr., plans tram railroad, Point Isabel to San Benito, and between Point Isabel and Brownsville; also plans operating boat line, Point Isabel to New Orleans; company acquired Rio Grande Ry., operating Brownsville to Point Isabel, will convert into electric tram line, and construct road direct to San Benito.

W. Va., Centralia—Baltimore & Ohio R. R. Co., H. A. Lane, Ch. Engr., Baltimore, Md., advises that owing to prevailing conditions in coal field decided to defer undertaking building line up Elk River in Braxton County to Webster County coal field. 7-18

West Virginia—Nicholas, Fayette & Greenbrier R. R. Co., subsidiary of Chesapeake & Ohio Ry. Co., Richmond, Va., and New York Central, New York, ordered survey made from mouth of Meadow River to headwaters of Panther Creek with view of extending line now under construction. Swiss to Nallen, 28 mi., proposed extension 34 mi. 4-11

West Virginia—Virginian & Western Ry. Co., subsidiary of Virginian Ry. Co., A. M. Traugott, Ch. Engr., Norfolk, Va., reported, let contract to Boxley Bros. Co., Orange, Va., for 14 mi. track from point 10 mi. west of Pineville to Gilbert; heavy grading and building of tunnels to require excavation of 600,000 to 700,000 yd. of earth; will complete connecting link between Norfolk & Western, and Virginian. 7-11

Railway Shops and Terminals

Ala., Birmingham—Louisville & Nashville R. R. Co., W. H. Courtenay, Ch. Engr., Louisville, Ky., let contract to C. G. Kershaw Contracting Co., Woodward St., Birmingham, for embankment and miscellaneous track work south of Ave. B at about \$28,000 in connection with grade separation project, including constructing additional tracks, rearrangement of present tracks, grading and miscellaneous concrete work, costing about \$118,000. (See Miscellaneous Construction.) 9-19

Okla., North McAlester (Ind. Sta. McAlester)—Missouri-Kansas-Texas R. R. Co., F. Ringer, Ch. Engr., St. Louis, Mo., let contract to Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago, Ill., for 300-ton. rein. conc. coaling station and sand handling plant to replace timber structure recently burned.

Tex., Big Spring—Texas & Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, advises it will be some time before bids are invited on proposed engine terminal, as plans are not yet complete. 9-19

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Mobile—City, S. H. Hendrix, Clk., considering widening St. Michael St., 8 ft. in connection with Twenty-seventh street paving venture; Harry T. Hartwell, Commr. 9-26

Ala., Mobile—Mobile County Bd. of Revenue and Road Comms., E. C. Doody, Clk., receives bids soon to grade and drain 2 roads: 4 mi. Wolf Ridge road, connecting Moffat road, from near Pine Grove and Citronelle road, near Whistler; 4 mi. Pump House road, from Old Shell road, to Moffat road, near reservoir; also 5 small wooden

bridges, creosoted piling, and large bridge across Three-Mile creek, on Pump House road; C. L. Strange, Maintenance Engr.

Ala., Montgomery—City, J. L. Cobbs, Treas., receives bids Oct. 8 for curbing, sewers and 12,200 sq. yd. asphalt, bitulithic, conc. or asphalt conc. paving, Fairview Ave.; Charles E. Johnson, City Engr.

Ark., Jonesboro—City Council plans paving streets near Children's playground, Improvement Dist. No. 35.

Ark., Jonesboro—City considering paving Johnson Ave., Main to Fisher St.; Fisher St., Aggie road to North School; Guy Cobb, Engr.

Ark., Mena—City Engrs. preparing plans for about 51 blocks paving in residence and business districts including portions of Federal Highway No. 71, and State Highways No. 8 and 88 within city limits.

Ark.-Tex., Texarkana—City will conc. Lelia St., 8-ft. wide from Third to T. & P. crossing and 10-ft. wide, from crossing to clay products plant property; one block on Third St., 10-ft. wide.

Florida—State Road Dept., Robert W. Bentley, Chmn., Tallahassee, receives bids Oct. 28 for 3 roads and bridge: Osceola County—12.09 mi. Florida lime rock base, surface treat, Road No. 24, St. Cloud to Holopaw; Palm Beach County—9.21 mi. plain cement conc., Road No. 4, Delray to Broward County line; 10.88 mi. grading, completing rock base surface and applying sand surface treatment, Road No. 143, Belle Glade to Pahokee; Putnam County—12.53 mi. lime rock base, surface treatment, Road 28, Keystone Heights to Florahome; Charlotte County—bridge across Peace River, Charlotte Harbor; 2449 lin. ft. hydraulic embankment, 125-32 ft. clear span conc. deck girders, 27-ft. roadway, 5-ft. sidewalks, on 24-in. square precast conc. piling, one 75-ft. clear channel double leaf bascule span; total length, including embankment, 6814 ft.; B. M. Duncan, State Highway Engr.

Fla., Benson—State Road Dept., Robert W. Bentley, Chmn., Tallahassee, plans improving State Highway No. 5 through Levy County.

Ga., Atkinson—Brantley County Comms., Nahunta, will build road along A. B. & C. R. R. connecting at Atkinson, with new Waveross-Brunswick Highway.

Ga., Atlanta—Fulton County, A. A. Clarke, Supt. of Public Works, starts Oct. 14 to repave 1 mi. 40 ft. wide Lakewood Ave. with conc.

Ga., Claxton—City, C. E. DeLoach, Clk., receives bids Oct. 11 to grade, drain, curb and pave with sheet asphalt, asphaltic conc., mac. asphalt, Warrenite bitulithic, or Portland cement conc. paving, with sewer and water connections on Main St. Carolina Engineering Co., 917 Johnston Bldg., Charlotte, N. C.

Ga., LaGrange—City, J. H. Moss, Clk., plans conc. paving Alford, Broome and Depot St.; G. H. Sargent, City Engr.

Ky., Paducah—City, Ernest Lackey, Mayor, considering gravel paving, conc. curbs, gutters and driveways, Paxton St., Bloom Ave. to Alexander Ave., with manholes, intakes, catch basins, sewer, etc.; Hunt Crossland, Clk.

La., Columbia—Caldwell Parish Police Jury plans expending \$45,000 for roads in Road Dist. No. 1; \$100,000 for roads in Road Dist. No. 2. See Financial News Columns.

Louisiana—Louisiana Highway Comm., receives bids Nov. 5 for grading and draining 3 roads: Rapides and Avoyelles Parishes—2.3 mi. Shirley to Bunkie; Bossier, Red River and Bienville Parishes—12.5 mi., Lockwood to Ninco; Rapides Parish—11.2 mi., Moreland to Meeker; Harry B. Henderlite, State Highway Engr.

Louisiana—Louisiana Highway Comm., Baton Rouge, receives bids Nov. 5 for 6 conc. highways: Sabine Parish—8.1 mi. Many-Florien Highway, Route 42; Allen Parish—7 mi. Oberlin-Kinder Highway, Route 24; Claiborne Parish—7 mi. Homer-Minden Highway, Route 11; Orleans Parish—8.5 mi. Chef Menteur-Rigolets Highway, Route 2; St. Tammany Parish—18.8 mi. Rigolets-Slidel-East Pearl River Highway, Route 2; LaSalle Parish—4.5 mi. Trout-Jena Highway, Routes 6 and 10; Harry B. Henderlite, State Highway Engr. 9-12

La., Kentwood—City, Mayor and Bd. of Aldermen, receive bids Oct. 8 for 2 blocks, grading, conc. paving with combination curb and gutters, storm sewers; E. G. Frieler, Engr., Hammond, La.

La., Monroe—City Comm. plans 20 blocks paving on 6 streets, including Ouachita Ave., South Second St., Grayling land.

Maryland—State Roads Comm., Baltimore, receives bids Oct. 8 for 7 roads: Anne Arundel County—2 mi. gravel, Shadyside road,

end of Cont. AA-33 toward Shadyside, Cont. AA-36; 3 mi. gravel, from Mt. Zion toward Bayard, Cont. AA-72; Baltimore County—1.5 mi. conc., Black Rock road, Cooper's Corner, Falls Road toward Mt. Zion, Cont. B-126; Baltimore and Howard Counties—1.5 mi. combined conc. curb, gutter, and conc. shoulders, Baltimore-Washington Blvd., Baltimore to Laurel, Cont. Ho-70; Frederick County—1.4 mi. conc., Rocky Ridge road, end of Cont. F-100 to Monocacy River, Cont. F-128; Montgomery County—6 mi. macad. resurface, Wisconsin Ave., Edgemoor road to Bradley Lane, and east side Connecticut Ave., at car barn and Chevy Chase Lake, Cont. M-129; 1.1 mi. conc., Connecticut Ave., Woodbine Ave. toward Chevy Chase Lake, and Leland St. connection from Maple Ave. to Cont. N-104, also along Leland St., Wisconsin Ave. to Bradley Lane, Cont. M-131; G. Clinton Uhl, Chmn.

Maryland—State Roads Comm., Baltimore, received low bids for 4 roads: Charles County—2 mi. gravel, Pomfret to Pomonkey, De Luca Construction Co., 64 Willow Spring Ave., Dundalk, Baltimore, \$25,357; Kent County—6 mi. conc., Kennedyville to Chestertown, Old Line Construction Co., Chestertown, \$88,781; Wicomico County—1.5 mi. conc., Salisbury-Snow Hill road, E. Main St., Salisbury, toward Snow Hill, Field, Barker & Underwood, Inc., Commercial Trust Bldg., Philadelphia, Pa., \$39,657; Worcester County—1.1 mi. conc., Snow Hill-Whiton road, Field, Barker & Underwood, \$20,863; G. Clinton Uhl, Chmn. 9-12

Md., Baltimore—City, Bd. of Awards, received low bid from P. Flanagan & Sons, Inc., Hartford road and B. & O. R. R., \$71,324, for sheet asphalt resurfacing, Falls road, Thirty-sixth to Forty-first St.; Nathan L. Smith, Highways Engr.

Miss., Batesville—Panola County Bd. of Supvrs., J. A. Carter, Clk., receives bids Oct. 14 for 2 roads and bridge: 2 mi. gravel surface, road, Supvrs. Dist. No. 5, from point west of Tallahatchie Bridge, toward Griffin's store; road levee embankment and bridge on old Panola, McIvor and Ballentine road, east of McIvor Creek drainage dist.

Miss., Holly Springs—City, Bd. of Aldermen, plans paving Chulahoma St., Memphis to Craft; Memphis, Golson to Chulahoma; N. Randolph, Park St. and Rust Ave.

Miss., Sardis—See Bridges, Culverts, Viaducts.

Miss., Winona—Montgomery County Highway Comms., Separate Road Dist. No. 4, receive bids Oct. 7 to furnish gravel and build Winona-Alva road; 2,250 tons washed gravel, 3,000 tons clay gravel.

Mo., Campbell—City, C. A. Snider, Clk., receives bids about Nov. 1 for grading, curbing and 10,000 sq. yd. 6-in. conc. paving; Russell & Axon, Engrs., 6200 Easton Ave., St. Louis, and 408 McDaniel Bldg., Springfield.

Mo., Clayton, St. Louis—State Highway Comm., T. H. Cutler, State Highway Engr., Jefferson City, plans expending \$11,000,000 on new roads and to widen present roads in St. Louis County during remainder of 1929 and in 1930; county plans expending \$10,000,000 for road development; Roy Jablonsky, County Highway Engr.

Mo., Clayton, St. Louis—St. Louis County Court, Walter E. Miller, County Clk., receives bids soon for 4 roads: Conc. paving Big Bend road, Denny road, Kirkwood to Quinnette road and from Quinnette road to Barrett Station road; Chamberlain road, Gibson Ave., Bellefontaine to St. Louis city limits; 3-in. macad. surface, Woodson road, Lackland Ave. to Page Ave., Overland; conc. Baumgartner road, Telegraph road to Heintz road; total cost \$230,745; Roy Jablonsky, Highway Engr.

Mo., De Soto—City receives bids about Oct. 17 for grading, curbing, conc. paving, 10 blocks of streets, cost \$25,000; Russell & Axon, Engrs., 6200 Easton Ave., St. Louis, 408 McDaniel Bldg., Springfield.

Mo., Benton—State Highway Dept., Jefferson City, plans survey of highway between Blomeyer and connection with Highway No. 61, near Morley, Scott County, via Chaffee and Oran; T. H. Cutler, Ch. Engr.

Mo., Herman—City receives bids about Oct. 17 for grading, curbing and 14,000 sq. yd. conc. paving, cost \$73,000; Russell & Axon, Engrs., 6200 Easton Ave., St. Louis, 408 McDaniel Bldg., Springfield.

Mo., Joplin—City, E. S. Glenn, City Engr., preparing plans to pave 36-ft. wide North Garrison Ave., Vine to Eldorado St.; grade and gravel 1/2 mi. East Highland Ave., River St. to city limits; widen South Main St., Fourth to Fifth.

Mo., Rolla—City, Bd. of Aldermen plans paving 6 blocks on Seventh and Eleventh St.

Mo., St. Charles—City, Henry G. Bloebaum, Clk., plans conc. curb, gutter and grading. Fourth St., Randolph to Wood; Frank H. May, Mayor.

Mo., St. Louis—City, Bd. of Public Service, received low bids from C. A. Moreno Co., Syndicate Trust Bldg., \$39,974, to pave with conc. Watson road, Pernod Ave. to city limits; from Central Paving & Construction Co., 411 N. Seventh St., \$23,637 to pave with asphaltic conc. East and West Iowa St. and North, South Gasconade St., at Lecelede Park; Chase Construction Co., \$9,826, to pave with vibrolithic conc., Taylor Ave., Delmar Blvd. to Finney Ave. 9-12

Mo., West Plains—City Comm. plans paving West and East Main St., South St., West Broadway, Washington Ave.

N. C., Charlotte—City, R. W. Rigsby, City Mgr., considering widening and opening North Graham St.

Okl., Altus—City Council plans expending \$80,000, for 14 blocks paving.

Okl., Guthrie—City, William W. Montin, Mgr. plans receiving bids soon to resurface 31 blocks of original brick paving.

Okl., Oklahoma City—City, E. M. Fry, Mgr., plans paving 7 streets, including Kentucky, Jordan Ave., Twenty-sixth, Eighteenth St., and some work in Jefferson Park addition; W. W. Small, City Engr.

South Carolina—State Highway Comm., Ben M. Sawyer, Ch. Highway Comm., Columbia, receives bids Oct. 8 for 2 roads: Lexington County—2,937 mi. plain Portland cement conc., Route 215, and Cayce cut off; 5,890 cu. yd. excavation, 19,490 sq. yd. 7½-6-7½-in. 18-ft. wide, and 11,317 sq. yd. 8-6½-8-in. 18-ft. wide, conc. paving; Abbeville County—5,411 mi. top soil surface, Route 71, Abbeville to Lowndesville; 10,822 cu. yd. excavation, 16,170 cu. yd. top soil.

South Carolina—State Highway Comm., Ben M. Sawyer, Ch. Highway Comm., Columbia, receives bids Oct. 8 for 5 roads and bridge: Lexington County—1,649 mi. plain Portland cement, connection of Routes 2 and 215, from point near Cayce, Route 2, to point near Brookland, Route 215; 3,298 cu. yd. excavation, 8,794 sq. yd. 7½-6-7½-in. 18-ft. conc., 8,317 sq. yd. 8-6½-8-in. 18-ft. conc.; Lancaster County—6,225 mi. Route 26, city limits of Lancaster to point south of Waxhaw Creek, 47,335 cu. yd. excavation, 37,300 sq. yd. 7½-6-7½-in. 18-ft. and 28,122 sq. yd. 8-6½-8-in. 18-ft. conc. paving, 29,738 lb. rein. steel; 9,802 mi. Route 26, point south of Twelve Mile Creek to N. C. State line, 19,604 cu. yd. excavation, 42,202 sq. yd. 7½-6-7½-in. 18-ft. and 61,313 sq. yd. 8-6½-8-in. 18-ft. conc., 16,744 lb. rein. steel; Union County—14,993 mi. Routes 7 and 215, city limits of Union via Carlisle to Broad River Bridge, 140,565 cu. yd. excavation, 95,339 sq. yd. 7½-6-7½-in. 18-ft. and 62,412 sq. yd. 8-6½-8-in. 18-ft. conc.; 38,549 lb. rein. steel; Greenville County—5,564 mi. top soil road, preparatory to surface treatment, Route 247, from U. S. Route 2 to Saluda River, 59,790 cu. yd. excavation, 17,296 cu. yd. top soil surface, 17,162 lb. rein. steel; Abbeville County—300-ft. rein. conc. bridge over Little River, Route 18, Abbeville to Antreville, 800 cu. yd. excavation, 106,166 lb. rein. steel.

Tennessee—Dept. of Highways and Public Works, R. H. Baker, Commr., Nashville, receives bids in Nov. for three 38-ft. wide, conc. roads costing about \$750,000: Route No. 2, Chattanooga to Jasper Highway via bridge over Tennessee River, under construction at Hales Bar; 3½ mi. Route 38, Chattanooga-Birmingham Pike, from Lookout Station to Georgia State line; 5 mi. Ringgold Pike, from Brainerd Pike to Georgia State line; T. E. McEwen, State Highway Engr.

Tennessee—Dept. of Highways and Public Works, R. H. Baker, Commr., Nashville, plans letting contracts Oct. 25 for \$1,000,000 road projects; T. E. McEwen, State Highway Engr.

Tenn., Gallatin—City, Mayor and Bd. of Aldermen, receive bids Oct. 8 for 4,400 sq. yd. rock asphalt, asphalt-o-cete, on new reconstructed macad. base, or 6-in. cement conc. paving; 4,330 lin. ft. conc. curb and gutter; C. N. Harrub Engineering Co., 705 Fourth and First National Bank Bldg., Nashville.

Tenn., Memphis—City, C. D. Miller, Clk., plans expending \$156,563, to widen, repave, etc., Cleveland St., Linden to Poplar Ave.

Tenn., Old Hickory—Davidson County Highway Dept., Nashville, will conc. highway between Old Hickory Bridge and Old Hickory proper.

Texas—State Highway Comm., Austin, appropriated \$1,275,171 for road work in about

25 counties; Gibb Gilchrist, State Highway Engr.

Texas—State Highway Comm., Austin, granted state aid, and appropriated funds to Williamson, Matagorda, Mason and McCulloch, Smith, Refugio, Pecos and Fannin Counties, toward road and bridge building; Gibb Gilchrist, State Highway Engr.; G. G. Wickline, Bridge Engr.

Texas—State Highway Comm., Austin, appropriated funds to Fox Bend, Reeves, Gregg, Van Zandt and Comanche Counties toward road building; Gibb Gilchrist, State Highway Engr.

Texas—State Highway Comm., Austin, granted state aid and appropriated funds to Harris, Caldwell, Upshur, Hunt, Lavaca and Counties toward road building; Gibb Gilchrist, State Highway Engr.

Texas—State Highway Comm., Austin, probably receives bids Oct. 21 for 22 roads: Henderson County—7,840 mi. B tes type rein. conc., Highway No. 31, Murchison to Athens; Hardin County—15,66 mi. bit. surface treatment, shell base, Highway No. 40, Kountze to Jefferson County line; San Patricio County—10,445 mi. grading, draining, Highway No. 128, Sta. 78 plus 35 to Stinton; Brown County—13,951 mi. grading, draining, Highway No. 10, from point east of Brownwood to Comanche County line; Denton County—14,012 mi. grading, draining, Highway No. 114, Tarrant County line to Wise County line; Matagorda County—2,263 mi. 18-ft. rein. conc., Highway No. 58, in Bay City; Tarrant County—10,401 mi. grading, draining, Highway No. 114, Dallas County line to Denton County line; Palo Pinto County—8,124 mi. grading, draining, Highway No. 25, end of Federal Aid Project No. 414 to Jack County line; McLennan County—3,920 mi. grading, draining, Highway No. 67, Seagoville road east to Bosque Blvd.; Motley County—19.5 mi. grading, bridges and culverts, Highway No. 28, Matarador to Cottle County line; Travis County—712 mi. grading, draining, Highway No. 20, Austin-Fredericksburg road, Oak Hill to end of Federal Aid Project No. 304-B; Gibb Gilchrist, State Highway Engr.

Texas—State Highway Comm., Austin, appropriated funds to Harrison, Reeves and Washington Counties, toward road building; Gibb Gilchrist, State Highway Engr.

Texas—State Highway Comm., Austin, probably receives bids Oct. 21 or 22 for 3 roads: Guadalupe County—7,281 mi. 51in. compacted gravel base, surface course, Highway No. 123, point north of Geronimo to Hays County line, Capt. A. Schlafli, Res. Engr.; Hays County—4,567 mi. 5-in. compacted gravel base, surface course, Highway No. 123, Guadalupe to city limits of San Marcos; Capt. A. Schlafli, Res. Engr.; Seguin; Matagorda County—6,407 mi. 18-ft. rein. conc., Highway No. 58, from St. L. B. & M. R. R. underpass to Pheasant; E. N. Gustafson, Res. Engr.; Gibb Gilchrist, State Highway Engr.

Tex., Amarillo—City, W. H. Durham, Mgr., plans paving Arthur, Houston and Johnson St.; also 2 alleys between Pierce and Buchanan, and Polk to Tyler.

Tex., Amarillo—State Highway Comm., Austin, Potter County, Sam Motlow, Judge, plan improving 3 roads: Paving Highway No. 5, from river to Moore County line; opening State Highway over county's oil field route, and completing route through Hutchinson County to Stinnett; resurface and widen various paved roads leading out of Amarillo.

Tex., Big Spring—Howard County considering expending \$900,000 to conc. Highways 1 and 9 across county, totaling 70 mi.; H. R. Debenport, County Judge. See Financial News Columns.

Tex., Big Spring—City, C. W. Cunningham, mayor, plans expending \$75,000 for paving extensions. See Financial News Columns.

Tex., Clarksville—Red River County plans improving 16 mi. Highway No. 5; cost \$82,000.

Tex., Corpus Christi—Nueces County plans expending \$2,484,509, for about 31 lateral roads, totaling 150 mi.; expending \$231,000 for 15 mi. hard surface road, Precinct No. 4; probably vote early in 1930 on \$2,500,000 bonds.

Tex., Corsicana—Navarro County plans about 25 blocks, street paving, in connection with extension of State Highways through city; \$2,500,000 available.

Tex., El Paso—El Paso County Commrs., J. W. Carter, considering expending \$132,000 to improve 3 sections of Smelter road; 36-ft. paved road from viaduct to city limits, \$39,105; from city limits to culvert near

cement plant, \$117,710; through Hart Mountain property, between river levee road and Smelter viaduct, \$22,000; E. B. McClintock, County Judge 9-26

Tex., Fort Worth—Tarrant County, Damon A. Davis, Engr., prepared plans for 8 mi. Fort Worth-Northwest Highway from Lake Worth to Ale; M. C. Welborn, Res. Engr.

Tex., Fort Worth—Tarrant County Commrs., S. D. Shannon, County Judge, plans gravel lateral road on Arlington-Mansfield road, 4 mi. south of Arlington, to intersect Polytechnic-Webb road.

Tex., Fort Worth—City, O. E. Carr, Mgr., plans widening Fourteenth St. to 80 ft., Chouteau Ave. to Allen Ave.; approximate cost \$410,094; D. L. Lewis, City Engr.

Tex., Fort Worth—City, O. E. Carr, Mgr., received low bid from Colglazier & Hoff, 125 Crosby St., San Antonio, \$7260, for 2-in. coarse asphaltic conc. paving on 6-in. base, Annie St.; at \$6502, for Cooper St.; at \$6838, for Elmwood Ave.; D. L. Lewis, City Engr.

Tex., Fredericksburg—Gillespie County plans expending \$360,000 to hard surface main roads in county. See Financial News Columns.

Tex., Gainesville—City, H. Turner, Sec., receives bids soon for street paving.

Tex., Galveston—State Highway Comm., Austin, plans 15 mi. conc., Highway No. 58, from Galveston to Brazoria County line, Galveston County; Gibb Gilchrist, State Highway Engr., preparing plans.

Tex., Galveston—Galveston County, E. B. Holman, County Judge, plans topping Texas City-Kemah Highway; probably raise section of road between San Leon and Clifton.

Tex., Galveston—City, W. B. McGarvey, City Engr., receives bids soon to widen and light Market St.; plans widening Church St., Twenty-first to Twenty-second St.

Tex., Gonzales—Gonzales County plans widening Highway No. 29 to 80 ft., from Gonzales to county line, toward Cuero; widen Highway No. 3 to 80 ft., Gonzales to county line toward Houston.

Tex., Goose Creek—City Council, Henry Cathriner, Commr., considering expending \$22,387 to pave Pearce Ave., Commerce to Pruett, with all intersections at Ashbel, Jones and Gaillard, including curbing, gutters and storm sewer connections; J. W. Powell, Mayor.

Tex., Groesbeck—Limestone County, Commrs., Precinct No. 3, considering expending \$1,000,000 for roads in precinct. See Financial News Columns.

Tex., Groesbeck—State Highway Comm., Austin, plans topping with gravel Highway No. 7, from Navasota River to Groesbeck, Limestone County; W. M. Wakefield, County Judge.

Tex., Haskell—Haskell County plans paved road through southwest part of county, toward Spur; voted bonds. See Financial News Columns.

Tex., Crockett—Houston County Commrs., Crockett, plan expending \$50,000 for road in Grapeland Dist., link in Dallas-Houston Highway, via Huntsville, Trinity, Grapeland, Palestine, Athens and Kaufman. See Financial News Columns.

Tex., Houston—Harris County, Norman Atkinson, Judge, plans 4,501 mi. grading, draining, rein. conc. Highway No. 19, Electric Junction to Almeda; A. J. Wise, Res. Engr.

Tex., Houston—City, W. E. Montie, Mayor, plans paving Bissonet Ave., Reinerman St. to Kirby Dr.; H. L. Shaw, City Engr., to prepare plans.

Tex., Houston—Harris County Commrs., Charles R. Haile, County Engr., making survey, Buffalo Speedway for 100-ft. roadway, from Westheimer road to Main.

Tex., Houston—City, W. E. Montie, Mayor, receives bids soon to pave Yale St., Washington to Twenty-second Ave., with 6-in. conc. base, 2-in. asphalt topping, 42-ft. wide; H. L. Shaw, City Engr. 9-19

Tex., Lamesa—Dawson County Commrs., considering improving roads, including paving Highway No. 9, through county. See Financial News Columns.

Tex., Laredo—Webb County Engr., T. H. Huffman, completed survey for 53 mi. highway, from Webb County border through Zapata County to Starr County, to be built by State and Federal Commissions.

Tex., Lockhart—Caldwell County, M. O. Judge, plans 5,688 mi. grading, draining, Highway No. 80, Fentress to Precinct No. 3 line; Don L. Hook, Res. Engr., Fentress.

Tex., Livingston—Polk County, plans 15.66 mi. double bit. surface treatment, shell base,

Highway No. 40, Kountze to Jefferson County line; Exline Martin, Res. Engr., Corrigan.

Tex., Lockhart—Caldwell County plans repairing and hard surfacing Highway No. 29, Lockhart to Travis County line.

Tex., Orange—Orange County plans widening, 60 to 100-ft. Orange-Beaumont Highway, link of Old Spanish Trail; State Highway Comm. Austin, will grade added right of way.

Tex., Raymondville—Willacy County, R. S. Dorsett, Judge, plans 8.127 mi. rein. conc., Highway No. 96, Raymondville to Kenedy County line; J. E. Johnson, Res. Engr.

Tex., Stinnett—Hutchinson County Commrs., H. M. Hood, County Judge, plans expending \$150,000 to pave 18.2 mi. Highway No. 117, Stinnett to Hansford County line. See Financial News Columns. 9-5

Tex., Wichita Falls—Wichita County, John P. Marrs, Judge, plans 115 mi. rein. conc., Highway No. 79, Archer County line north across Spillway; J. M. Isbell, County Engr.

Virginia—State Highway Comm., H. G. Shirley, Commr., Richmond, received low bids for 2 roads and 3 bridges: Rockingham County—2.489 mi. grading, draining, Route 17, Walters & Prater, Dandridge, Tenn., \$41,431; Augusta County—904 mi. macad., Route 33, Walters & Prater, Dandridge, \$27,151; bridges, Tazewell County—superstructure of bridge over Bluestone River, one 75-ft. steel truss span, superstructure of bridge over Mud Fork, one 75-ft. steel truss span, Route 117, James Allen Martin, Spout Springs, Va., \$9,919; Clarke and Frederick Counties—187-ft. bridge over Opequon Creek, rein. conc. beam spans, J. R. Ford & Co., 1223 Floyd St., Lynchburg, \$11,951. 8-12, 9-19

Virginia—State Highway Comm., Richmond, receives bids Oct. 15 for 6 roads and 2 bridges: Roanoke County—2.7 mi. bit. macad., conc. base, or stone base with alternate wearing surface, Route 10, from city limits of Roanoke, 28,427 sq. yd. paving, 15,380 cu. yd. excavation; Warwick County—4 mi. conc., Route 39, from Lee Hall, 35,299 cu. yd. excavation, 26,904 sq. yd. conc., 11,186 lb. rein. steel; bridge over Warwick River, 6605 lb. rein. steel, 39,475 lb. struct. steel; Prince George County—6.7 mi. 10-in. gravel, Route 407, from city limits of Hopewell, 22,000 cu. yd. gravel; Brunswick County—2.9 mi. soil, Route 12, from point west of Lawrenceville, 14,716 cu. yd. excavation, 9,446 cu. yd. soil; Clarke County—1.4 mi. macad., Route 37, point west of Berryville, 14,803 cu. yd. excavation, 3012 sq. yd. macad., 15,148 sq. yd. conc.; also bridge over Abram's Creek, 15,355 lb. rein. steel; Rockbridge County—7.4 mi. grade, drain, Route 14, from Buena Vista, 126,116 cu. yd. excavation, 23,507 lb. rein. steel; C. S. Mullen, Ch. Engr.

Va., Danville—City Council considering expending \$120,000 to \$140,000 for street building; C. L. Scott, City Engr. See Financial News Columns.

W. Va., Huntington—City, Fred E. Reed, Jr., Commr. of Streets and Sewer, considering resurfacing with asphalt, pavement in downtown section.

W. Va., Middlebourne—Tyler County plans expending \$98,000 for roads in Ellsworth Dist. See Financial News Columns.

W. Va., Spencer—Roane County plans expending \$62,500 for roads in Harper Road Dist. See Financial News Columns.

Contracts Awarded

Ala., Minden—State Highway Comm., Montgomery, let contract to E. P. Toulmin, Toulminville, Mobile, for 4 mi. gravel surface road at Dixon Mills. 8-29

Ark., Danville—Bd. of Commrs., Paving, Dist. No. 1, J. W. Lewis, let contract to Grady Garms, Rector Bldg., Little Rock, \$24,856, for 13,500 sq. yd. grading, draining, curb, gutter and paving, N. Main St.

Ark., Jonesboro—Duke & Arrington have contract to gravel road between Poplar Ridge and Monette, Craighead County.

Ark., North Little Rock, Little Rock—Bd. of Commrs., North Little Rock & Park Hill Paving & Sidewalk Improvement Dist. No. 39, W. B. Sanders, Sec., let contract to L. L. McEachin Construction Co., Home Insurance Bldg., Little Rock, \$73,000, to pave West Twenty-second St., and sidewalks in Park Hill.

Ark., Osceola—Commrs., Maintenance Dist. No. 1, Road Improvement Dist. No. 5, Mississippi County, C. C. Speck, Commr., let contract to Ellis & Lewis, Pyramid Life Bldg., Little Rock, \$55,909, for about 24 mi. gravel road, and 616 lin. ft. timber bridg-

ing; Commrs., Wardell & Whitton Road Maintenance, Dist. No. 2, Mississippi County, J. A. McClendon, Commr., let contract to Ellis & Lewis, \$33,755, for about 14 mi. gravel road, and 636 lin. ft. timber bridging.

Ark., Searcy—Hogan Construction Co., Home Insurance Bldg., Little Rock, has contract for 11 blocks paving and gutter in Improvement Dist. No. 17 and 18.

Fla., Miami—City, H. E. Ross, Clk., let contract to O. W. Collins, 1401 Bayshore Dr., to pave 5-in. pit rock, etc., N. W. Fourteenth Ave. 9-19

La., Many—Sabine Parish Police Jury, J. M. Abingdon, Sec., let contract to Claud Carter, Many, for building and graveling roads, building bridges; sold bonds.

Fla., Moss Bluff—H. L. Wiley, Leesburg, Fla., has contract for 5,890 sq. yd. grading, U. S. Reservation at Moss Bluff.

Ga., Glenville—City let contract to Clausen-Lawrence Construction Co., 1394 Gwinnett St., Augusta, \$60,457, for 23,000 sq. yd. conc. paving, curb, gutter and storm drainage.

Ga., Ringgold—State Highway Dept., Col. Sam Tate, Chmn., East Point, let contract to Joe R. Cothran, Candler Bldg., for 7 mi. single bit. surface treatment on 7 in. base, Chattanooga-Atlanta road, Catoosa County.

Ky., Greensburg—State Highway Comm., Frankfort, let contract to C. B. Peart, Auburn, \$31,051, for 8.5 mi. trafficbound macad., Greensburg-Hodgenville road.

La., Natchitoches—Advisory Committee, Road Dist. A-10, Natchitoches Parish, Oliver Fredieu, Sec., let contract to J. J. McKeithen, Grayson, \$11,352, for 4.87 mi. Powhattan, Campiti Ferry Highway; rejected bids for 4.61 mi. Collins-Campiti Ferry Highway. 8-29

Md., Baltimore—City, Bd. of Awards, let contract to American Paving & Contracting Co., Montebello Ave. and B. O. R. R., \$121,816, to pave 7 roads and streets, including Belvedere Ave., Charles St. to Bellona Ave.; Nathan L. Smith, Highways Engr. 9-12

Md., Easton—Town, Richard Goldsborough, Clk., let contract to Farmer & Comegys, Easton, to grade and conc. pave Harrison St. 9-12

Miss., Marks—Jones, Rast & Griffith, Birmingham, Ala., have contract, \$45,000, for 2 blocks street paving; Bobo and Clark, Engrs., Clarksdale, Miss. 9-12

Mo., Kirkwood—City, W. J. Donworth, Clk., let contract to Carlson Construction Co., 3516 Greenwood Ave., Maplewood, Mo., to improve Joe, Ann, Porter and Woodbine Ave. 9-5

Mo., Rolla—City, Bd. of Aldermen, let contract to Tidd & Cole, Sikeston, \$29,240, to pave North Pine St., Twelfth to junction with U. S. Highway No. 66; Ninth St., from Pine to Frisco tracks. 8-15

N. C., Louisville—City let contract to E. S. Waters, Beaufort, \$7297, to pave College St., Main to Elm St., including 6-in. conc. driveway, sidewalks and curbing.

Okla., Beaver—City, Gwen Stephenson, Clk., let contract to James Stanton & Son, Leavenworth, Kan., \$65,885 for 7-in. conc. paving.

Tenn., Chattanooga—Hamilton County Highway Comm., let contract to Brown Contracting Co., 2117 Laura St., \$19,980, for 3 mi. grading Hixon Pike, Hamill road to Chickamauga Creek; E. G. Murrill, County Engr.

Tenn., Covington—Tipton County Commrs., let contracts totaling \$149,067 for 10 gravel roads: To Forcum-James Co., Dyersburg, \$24,732 for Covington and Charleston road to Charleston; Mt. Carmel road to point north of Kelly's corner; 1.69 mi. Covington to Bride road; Leigh Chapel road; 18 mi. road to Memphis Stone & Gravel Co., Exch. Bldg., for 18 mi.; to Jerry W. Gwin, Comer Bldg., Birmingham, Ala., \$84,862, No. 91, Brighton to Gladney's levee; No. 32, point north of Kelly's corner to Shelby County line; Salem, A. R. P. Church to Dunlap's Orphanage; No. 33, Bridge road, from Project No. 30 to Detroit, to near No. 59 State road; No. 34, Munford to Shelby County line via Drummonds and Quito.

Tex., Dallas—Dallas County, Charles E. Gross, Auditor, let contracts for 2 roads: To C. A. & J. W. Vilbig, Jr., 817 Bourbon St., Dallas, \$14,574, to build and gravel Rowlett-Pleasant Valley road; to R. J. Estep & Co., Praetorian Bldg., Dallas, for approaches and rock work on Buckner Blvd. at Santa Fe underpass; Rollins & Clinger, Dist. Engrs. 8-22

Tex., San Angelo—Theo. Montgomery has contract for curb and gutter work on 4 blocks, Allen St. and north side of under-

pass at Santa Fe tracks; Simpson & Thompson will lay 6-in. macad. base, 1½-in. hot rock asphalt top paving.

Va., Purcellville—Sodders & Bell, Berryville, Va., have contract to surface with crushed rock, mountain road from Snickers Gap to Drury Lane, Loudoun County.

West Virginia—State Road Comm., Charleston, let contracts to grade and drain 2 roads: Grant County—2.47 mi. Gorman-Bayard road, W. E. Allen, Union Bank Bldg., Clarksburg; Hardy County—7 mi. Baker-Wardensville road, Gilbert Construction Co., Fairview, \$139,410; Mercer County—Terry Brothers, Wytheville, Va., for guard rail. 9-5

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ark., Hot Springs—City, has had survey completed by H. S. Moreland, City Engr. for sewers; have organized Oaklawn-West South Hot Springs Sewer District. 8-1

Fla., Jacksonville—City soon receives bids for proposed Murray Hill drainage project, including 36-in. ditch of Lambolt St., 30-in. and 24-in. drain on Sappho and College Sts.; cost \$32,000; Wm. E. Shedd, City Engr.

Ga., Atlanta—Bond Comm. and Sewer Comm., recommended expenditure of \$75,000 for enlarging Peachtree Creek sewage disposal plant.

Ga., Claxton—See Roads, Streets, Paving.

Ky., Lexington—W. T. Congleton & Co., reported, low bidder for sewers.

Ky., Louisville—Commrs. of Sewerage receive bids Oct. 17 for constructing Brock St. sewer extension, Contr. No. 42, and 38th St. sewer, Contr. No. 43. See Want Section—Bids Asked. 9-19

La., Houma—City voted \$193,00 sewer bonds. 9-5

La., Kentwood—See Roads, Streets, Paving.

Md., Easton—Town let contract to Vittorio & Ventresco, 423 E. High St., Philadelphia, Pa., at \$40,330 for sewer extension; Caton Cons. Co., Halethorpe, Md., for storm water drains. 9-12

Miss., Greenville—J. H. Ward, reported, has contract for sewer pumping station; brick, tile roof, 23x22 ft.

Mo., Chaffee—H. A. Grabbe, Alton, Ill., reported, has contract for sewer and water line extension. 8-28

Mo., DeSoto—City receives bids about Oct. 17 for \$110,000 clay sewerage system; Russell & Axon, Engrs., 406 McDaniel Bldg., Springfield.

Mo., Pacific—City plans voting on \$54,000 sewer bonds.

Mo., St. Joseph—Judson Eng. & Constr. Co., 1811 Faraon St., reported, has contract at \$21,825 for sewers in Hyde Park Dist.; Harrington Constr. Co., 2900 Messanie St., for vit. clay sewers, Dists. 170 and 162.

Mo., St. Louis—Ansbro & Maguire, Title Guarantee Bldg., reported, has contract for sewers in Hamilton Ave. Joint Sewer Dist.

N. C., Charlotte—Tucker & Laxton, Independent Bldg., have contract for rebuilding portion of Irwin Creek sewage outfall; cost \$80,000. 9-12

Okla., Cherokee—Highway Construction Co., Daniels Bldg., Tulsa, reported, has contract for 1480 ft. conc. storm sewer. 8-22

Okla., Claremore—W. B. Carter, 7 N. Rockford Ave., Tulsa, reported, has contract for Savage sewage project.

Okla., Tulsa—City Commr. approved plans and estimates for sanitary sewer district to serve Forest Hills Addition.

Tenn., Knoxville—L. A. Gridley Construction Co., Daylight Bldg., Knoxville, reported, has contract for 11,000 ft. of 8 to 24 in. conc. pipe sewers in L. & N. Ry. yards, also for 12 in. and 8 in. conc. pipe in Burlington trunk sewer and laterals.

Tex., Goose Creek—See Roads, Streets, Paving.

Tex., Houston—City, Fred W. Turner, Sec., receiving bids for sanitary sewers on Dennis and Napoleon Sts.

Tex., Houston—City, Hamp L. Shaw, City Engr., soon call for bids for sewers on S. MacGregor Way, Scott to Leland Ave.

Tex., Big Springs—City votes Nov. 12 on \$100,000 sewer disposal and sewer extension bonds.

Tex., Harlingen—City, Sam Botts, Mayor, reported, plans sewage disposal plant.

Tex., Houston—Elder Construction Co., 4714 Jack St., reported, low bidder at \$28,635 for storm and \$7436 for sanitary sewer on Fannin St. between Leland and Calumet Aves. 9-26

Tex., Houston—City soon call for bids for storm sewer in connection with proposed Houston Ave. underpass; cost \$27,000.

Tex., Kenedy—Johnson & Reed, Austin, low bidder at \$43,891 for sewer extension, sewage disposal plant and appurtenances. 9-12

Tex., La Porte—City engaged Jack H. Rafferty, Marine Bank Bldg., Houston, as sewer engineer; will draft plans for sewer system and extension to water mains; may vote on \$50,000 sewer and \$15,000 water works bonds. 8-22

Tex., Port Arthur—See Water Works.

Tex., Port Neches—See Water Works.

Tex., Richmond—Dallas Constr. Co., Dallas, reported, has contract for sewers.

Tex., San Benito—Dallas Construction Co., Dallas, reported, has contract for doubling capacity of sewage disposal plant, 500,000 gal. to 1,000,000 gal.; cost \$16,000.

Va., Charlottesville—City plans voting on \$225,000 sewer bonds.

W. Va., Elkins—City plans constructing sewer in Park View Addition and on Sixteenth St.

Telephone Systems

D. C., Washington—Bd. of Directors of Chesapeake & Potomac Telephone Co. authorized additional telephone facilities for Washington, involving expenditures of \$734,653, including installing and modifying telephone equipment on subscribers' premises for dial operation in Metropolitan, District and National central office areas and installing 15 toll switchboards equipped with 100 outward lines and 300 inward lines, together with associated equipment; outside plant facilities include underground conduit extensions and cable connections.

Md., Baltimore—Bd. of Directors of Chesapeake & Potomac Telephone Co., Graham K. McCorkle, Gen. Mgr., authorized additional telephone facilities throughout Maryland, involving expenditures of \$743,845, including underground conduit and cable extensions in Baltimore and installing storage battery equipment in Plaza and Gilmore central offices, pole replacements at Mount Airy, Great Mills and Bethesda area.

Md., Cumberland—Associated Broadcasting Corp., Commercial Bank, Incorporated; Roy S. Blackman, Clarence R. Perrigo.

N. C., Winston-Salem—Carolina Steel & Iron Co., S. Elm St., Greensboro, has contract for 360 tons struc. steel for telephone building, Fifth St., of Southern Bell Telephone & Telegraph Co., Atlanta, Ga.; Barge-Thompson Co., Gen. Contr., 136 Ellis St. N. E.; Mayre, Alger & Vinour, Archt., Forsythe Bldg., both Atlanta. 8-29

Okl., Enid—Southwestern Bell Telephone Co., C. W. Mier, Oklahoma City, acquired site, W. Broadway, for plant to house dial equipment; 3 story and basement.

Tex., Belton—Southwestern Bell Telephone Co., B. D. Hull, Dallas, plans expending about \$15,000 for improvements; company recently acquired Belton plant.

Va., Richmond—Chesapeake & Potomac Telephone Co., John A. Remon, Gen. Mgr., let contract to John W. Cowper Co., Inc., State Planters Bank Bldg., for \$140,000 addition to Boulevard central office building; brick, limestone, steel, I shaped, 1 section 20 x 37 ft., other 45 x 76 ft.; included in \$535,628 appropriation; Voorheer, Gmelin & Walker, Archt., 101 Park Ave., New York; directors of Company authorized constructing toll pole line and circuits between Staunton and Milboro, and relocation of pole lines in Clarendon section of Arlington County, and between Christiansburg and Blacksburg, and section of pole line between Roanoke.

Va., Wytheville—Inter-Mountain Telephone Co., Telephone Bldg., Bristol, Tenn., let contract to E. S. Glover, Bristol, for \$30,000 central office building, First and Spring St.; brick; laying water main to site.

Textile Mills

Ala., Anniston—Choccolocco Mills organized with D. D. Campbell, Pres.; take over Woodstock Cotton Mill; manufactures tapestries, draperies and bedspreads.

Ala., Opelika—Floyd Electric Co., Opelika, reported, has contract at \$30,000 for wiring Pepperell Mill addition. 7-11

Ala., Talladega—Bemis Bros. Bag Co., 601 S. Fourth St., St. Louis, Mo., reported, construct second unit of bag plant.

Ga., Macon—William Carter Co., Needham Heights, Mass., reported, soon begin work on underwear plant on Houston Rd. 4-11

Ky., Mayfield—Curlee Clothing Co., 1001 Washington St., St. Louis, Mo., reported, acquired Mayfield Woolen Mill; manufactures cashmeres and uses product in manufacture of men's and boys' clothing.

Miss., Gulfport—Gates Electric Co., Gulfport, reported, has contract for light and power service, including motor connections in mill of Walcott-Campbell Spinning Co. 8-29

N. C., Greensboro—Tytape Mfg. Co., W. G. Fox, Pres., High Point, consolidated Southern Fabric Mills, Inc., of High Point, and Triangle Mfg. Co., Greensboro; plan installing narrow looms for making narrow fabrics such as insulating tapes, woven tapes, etc.

N. C., High Point—Highland Cotton Mills, reported, let contract to Carolina Steel & Iron Co., S. Elm St., Greensboro, for 110 tons struc. steel for textile mill addition. 9-12

N. C., Lincolnton—A. D. Carter, 511 Third St., Gastonia, reported, acquired Arrow Mills; will be operated as Carter Mills; manufacturers combed yarns.

S. C., Pelham—Stockholders of Pelham Mills vote Oct. 22 on increasing capital stock to \$500,000.

S. C., Rock Hill—Hosiery Building Co., reported, plans enlarging building leased to Rock Hill Hosiery Co.; install additional machinery; Charles L. Okey, Res. Mgr. 4-11

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Gadsden—City, reported, secured site on Lookout Mountains for 500,000 gal. reservoir. 8-29

Fla., Delray Beach—W. W. Lotspeltch, c/o R. H. Magruder, Coconut Grove, has contract for extension and enlargement of water works, including pumping station, 75,000 gal. masonry reservoir; install 2 low lift and 2 service pumping units, motor driven; Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago, Mch. Contrs.; Main Engineering Co., Inc., Engrs., 112 Marion St., Daytona Beach. 8-22

Fla., St. Petersburg—Layne-Southeastern Co., 742 29th Ave., S., has \$3,000,000 contract with city for 30-yr. contract to supply water at wholesale rates at city limits; construction details include building of 36-in. pipe line from Cosme Lake area to city, distance of 30 mi.; firm bids will be required as soon as specifications can be issued on steel pipe, conc. pipe and c. i. pipe; specifications prepared by Malcolm Pirnie, 25 W. 43rd St., New York; J. B. McCrary Co., Atlanta, Ga., general contractors, working in conjunction with Layne-Southeastern Co., Seaboard Railway Bldg., Norfolk, Va.; other construction includes aeration and collection basins and well drilling; all well drilling and pumps will be supplied by Layne-Southeastern Co.; all authority for purchase of material and construction vested in above named contractors and engineers by ratification vote of people. 9-12

Ga., Bowden—City voted \$35,000 water works bonds.

Ga., Claxton—See Roads, Streets, Paving.

Ga., Griffin—Following contractors estimating on \$350,000 water supply development, bids opened Oct. 10: Sam N. Hodges Co., Erlanger Bldg., Arthur R. Myers Co., McGlawn-Bowen Bldg., A. K. Adams Co., 542 Plum St., N. W., Arthur Pew, Jr., Red Rock Bldg., Chas. O. Case, 249 Peachtree St., all Atlanta, Ga.; Batson-Cook Co., West Point; Tucker & Laxton, Independent Bldg., The McClelland Co., 9 W. Third St., and V. B. Higgins Co., Kinney Bldg., all Charlotte, N. C.; A. H. Guion & Co., W. Main St., Gastonia, N. C.; Benjamin Thompson, Box 1044, Tampa, Fla.; Merkle Contracting Co., City Bank Bldg., Kansas City, Mo.; Kelly-Wilson Co., Jackson Bldg., Asheville, N. C. 9-26

La., Dubach—City, C. C. Barham, Mayor, plans water works; \$25,000 bonds available. 8-29

La., Gilbert—City voted water works bonds; erect \$25,000 plant.

La., Lafayette—City let following contracts for water works: constructing filter plant,

P. Oliver & Son, 114 Bilbo St., Lake Charles, at \$78,931; for deep well and deep well pump, Layne-Louisiana Co., Inc., 210 Broad St., Lake Charles, at \$7500; water meters, (Empire Meters), made by National Meter Co., 290 Broadway, New York; meter boxes, lid and key lock and ring, Dallas Foundry, 300 College St., Dallas, Tex. 8-29

La., LaFayette—Layne-Louisiana Co., Lake Charles, reported, has contract for water works improvements. 8-29

La., St. Joseph—A. J. McCorkel, Hammond, reported, has contract at \$30,000 for water works system; Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago, and New Orleans; Chicago Bridge & Iron Works, Magnolia Bldg., Dallas, Tex.; Layne-Louisiana Co., 210 Broad St., Lake Charles; National Cast Iron Pipe Co., Birmingham, Ala., and Dixie Mill Supply Co., 901 Tchoupitoulas St., New Orleans, for machinery, piping, tanks, etc. 9-12

Miss., Hattiesburg—Blakemore Drilling & Engineering Co., Queen and Crescent Bldg., New Orleans, La., reported, has contract for drilling test well for water works plant. 9-12

Mo., Sweet Springs—City, J. J. Smith, Mayor, soon call for bids for \$65,000 water works extension; 5 miles of c. i. mains, 60 hydrants, 75,000 gal. steel tank and tower; let contract to Layne-Western Co., Kansas City, for 3 wells and pumping machinery; Shockley Engineering Co., Kansas City, Engrs. See Want Section—Machinery and Supplies.

Okl., Norman—City, John T. Hamill, City Mgr., reported, considering constructing 500,000 gal. elevated water tank.

Okl., Oklahoma City—City, Charles E. Bretz, Water Supt., E. M. Fry, City Mgr., plans extension of water service; cost \$125,000.

Tex., Amarillo—City plans water works plant on Bushland, 4 miles southwest of city; votes Oct. 26 on \$200,000 bonds; E. N. Stanley, City Engr.

Tex., Amarillo—City votes Oct. 26 on \$200,000 water works bonds. 9-26

Tex., Austin—City, Leo Mueller, Commr., plans survey to determine feasibility of low water dam near Congress Ave. bridge as part of \$700,000 parks and playground program.

Tex., Big Spring—City votes No. 12 on \$125,000 water works improvement bonds.

Tex., Brownsville—City, reported, plans laboratory and equipment for testing water, also chemical treatment plant in connection with proposed water works; cost \$75,000. 9-19

Tex., Bryan—McMaster & Pomeroy, Pasadena, reported, has contract for well for water supply. 9-26

Tex., Corpus Christi—Neuces Water Improvement District No. 1, reported, begin work Oct. 15 on water mains; \$60,000 available. 5-23

Tex., Houston—Ricker Construction Co., Inc., Colorado St., reported, has contract for water main on Wilshire Blvd.; Gus Japhet, State Natl. Bank Bldg., contract for laying 8-in. main on Canal St.

Tex., Port Arthur—City votes in Nov. on \$100,000 water works bonds.

Tex., Port Neches—City call for bids Oct. 13 for water and sewer system. 9-12

Tex., LaPorte—See Sewer Construction.

Tex., Throckmorton—City voted \$22,000 water works bonds.

Woodworking Plants

Ga., Monticello—United States Bobbin & Shuttle Co., Luther C. Baldwin, Pres., 57 Eddy St., Providence, R. I., reported, merged with Jordan Mfg. Co., Monticello, textile machinery manufacturers; Southern interests of combined companies to be known as Jordan Division, headquarters at Monticello; will operate plants at Greenville, S. C.; Monticello, Ga., and Johnson City, Tenn.

Miss., Goodman—Grief Bros. Cooperage Co., 1937 Willey Ave., Cleveland, Ohio, reported, has plans for 2 stave mills, at Goodman and at Balden, to operate under new mechanical system, each costing over \$45,000 with equipment.

Va., Bassett—C. J. Stull, of Crawford & Stull, Roanoke, representing northern interests, reported, secured options on controlling stock following: J. D. Bassett Furniture Mfg. Co. and Bassett Furniture Co., both Bassetts; Stanley Furniture Co., Stanleytown; W. M. Bassett Furniture Co., Martinsville; Vaughan Furniture Co., Galax, and United Furniture Co., Lexington, N. C.

FIRE DAMAGE

La., Sterlington—D. Y. Smith's warehouse.
Md., Baltimore—Jos. Shure's haberdashery, 631 Washington Blvd.; loss \$18,000.
Md., St. Michaels—Norman Marshall's garage and warehouse.
Miss., Clarks, Robinsonville — Carrow & Cox's barn.
Miss., Crystal Springs—Plant of Southern United Ice Co., O. C. Wykert, Mgr., local branch, subsidiary of Mid-West Utilities Co., branch headquarters Lampton Bldg., Jackson; loss \$20,000.
N. C., Badin—R. L. Webster's residence, residence, Cedar St.

N. C., Statesville—Lumber plant of C. M. Wall and Son, including buildings and equipment; loss \$50,000.

Okl., Durant—Durant Mercantile Co.'s department store; loss \$40,000.

Tenn., Baileyton—Alex Hughes' flour mill; loss \$15,000.

Tex., Beaumont—Purity Candy Co.'s plant, Crockett St.

Tex., Cleburne—Cleburne Hotel, owned by B. M. Estep, Van Alstyne; W. H. Goldsmith's building; loss \$60,000.

Va., Richmond—Boys' dormitory of Bethany Home.

W. Va., Bridgeport—Freight and passenger station of Baltimore and Ohio R. R., H. A. Lane, Ch. Engr., Baltimore.

selected J. H. Chafin, Waycross, as architect for \$38,000 courthouse; brick, conc. footings, 2 stories. 7-18

Md., Baltimore—City, Wm. F. Broening, Mayor, plans improvements and additions to stadium; night lighting, amplifying system, conc. seats.

Miss., Seminary — City Council considers erecting city hall and Masonic temple building; \$10,000; also considering erecting small hospital.

Mo., St. Louis—Board of Public Service, E. R. Kinsey, Pres., has low bid at \$137,208 from E. A. Brunson Construction Co., Rwy. Exch. Bldg., for Sixth District Police Station, Florissant and Ruskin Aves.; Mauran, Russell & Crowell, Archts., Chemical Bldg. 9-12

Mo., St. Louis—Zoological Bd. of Control receives bids Oct. 17 at office President, Bd. of Public Service, Room 304 City Hall, for bird house, Zoological Park; separate bids for plumbing and drainage work; for heating and ventilating system; for wiring; \$150,000; plans from office of President, Room 304. 9-19

Mo., West Plains—Howell County defeated \$125,000 courthouse bonds. 8-29

N. C., Greenville—William Henry Haywood Sheppard Memorial Library, Wm. H. Dail, Jr., member, Bldg. Comm., selected Leslie N. Boney, Murchison Bldg., Wilmington, as architect for \$50,000 library, Evans St. 9-12

N. C., Lexington—Davidson County Bd. of Comms., C. H. D. Leonard, County Mgr., selected Herbert D. Hunter, 116 N. Main St., as architect for \$300,000 courthouse and jail; stone, 6 stories, 120x120 ft. 9-19

Tenn., Chattanooga — City receives bids until Oct. 9 at office Jas. A. Cash, City Commr., for fire station, Sylvan Dr. and Forrest Ave., North Chattanooga; separate bids on heating, plumbing and wiring; plans from R. H. Hunt Co., Archt., James Building. 8-22

Tenn., Johnson City — City receives bids Oct. 3 for central fire station, E. Main St.; \$25,000, brick, 2 stories, 52x81.9 ft.; C. G. Mitchell, Archt.

Tenn., St. Elmo, Chattanooga — City of Chattanooga, Jas. A. Cash, City Commr., receives bids until Oct. 11 for fire station, St. Elmo Ave. and 45th St.; separate bids on heating, plumbing and wiring; brown brick; plans from Gordon L. Smith, Archt., Volunteer Life Bldg., Chattanooga. 9-12

Tex., Beaumont—Jefferson County Comms. Court, B. H. Johnson, County Judge, on Nov. 18 will receive sketches from architects for \$1,000,000 courthouse. 8-22

Tex., Big Spring—City, C. W. Cunningham, Mayor, votes Nov. 12 on \$500,000 bonds, including \$135,000 for city hall, \$30,000 for central fire station and \$20,000 for 2 sub fire stations.

Tex., Dallas—Town of Highland Park, J. Ben Critz, Mayor, having plans drawn by Lang & Witchell, Archts., American Exch. Bank Bldg., for \$75,000 library; hollow tile and rein. conc., 2 stories; studio on second floor. 9-26

Tex., Houston—City, H. Andy Delery, Fire Commr., erect Fire Station No. 24, Polk and Shepherd Sts.; City Engr. Hamp L. Shaw to draw plans.

Tex., Midland — Midland County voted \$150,000 bonds for courthouse and jail, to be supplemented by \$145,000 warrants; structure brick and stone, 4 stories; Voelcker & Dixon, Archts., Perkins-Snyder Bldg., Wichita Falls. 8-29

Tex., San Antonio—City has low bid at \$23,846 from J. E. Dickey, 216 Eleanor St., for Roosevelt Park branch library; John M. Marriott, Archt., Frost Natl. Bk. Bldg. 9-12

Va., Staunton—City, W. E. Day, City Mgr., rejected bids for \$75,000 alterations and improvements to city hall; will not proceed with alterations; W. J. Collins & Son, Archts., Staunton Natl. Bk. Bldg.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ark., Little Rock—Young Men's Christian Assn., H. T. Terry, Pres., considers erecting 3 additional stories to present 4-story bldg., Sixth St. and Broadway; \$100,000; handball courts, gymnasium.

Ky., Covington—India Consistory, Henderson G. Hightower, Master of Kadosh, considers erecting \$250,000 to \$350,000 temple.

Mo., University City, St. Louis—Knights of Columbus, care Alfred J. Johnson, Archt., 585 Kingsland Ave., plans brick, rein. conc. and struct. steel bldg.; probably 2 stories and basement.

Tex., Houston — Young Men's Christian Assn. Bd. of Directors considers erecting building.

Bank and Office

Ga., Atlanta—North Pryor Street Corp., Albert Thornton, Jr., Pres., has low bid at \$365,900 from Griffin Construction Co., 452 Spring St., N. W., for 5-story and basement store and office bldg.; low bid for elevators, American Elevator Co., 117 Cedar St., New York, \$20,507; A. TenEyck Brown, Archt., (A. Barili, Jr., Associate), Forsyth Bldg. 9-19

Miss., Jackson—Guarantee Bond & Mortgage Co., receives bids until Oct. 7 for office bldg., Yazoo and President Sts.; rein. conc., brick, stone trim, 2 stories, 70x120 ft.; Claude H. Lindsley, Archt., Lamar Life Bldg.

Mo., Flat River—Phoenix Building & Loan Assn., E. A. Blantiel, Pres., about ready for bids for brick bank bldg.; 2 stories; \$20,000; Howard & Finley, Archts., International Life Bldg., St. Louis.

Mo., St. Louis—Albert Wenzlick Real Estate Co., Delbert S. Wenzlick, Vice. Pres., Treas., 1010 Chestnut St., erect \$3,000,000 Wenzlick Tower, 11th and Chestnut Sts.; Brussel & Viterbo, Struct. Engrs.; Walter C. Ellis, Mech. Engr., both Arcade Bldg.; structure 35 stories and 2 basements, site 106x104 ft.; Klingensmith & Wilkins, Archts., 317 N. 11th St. 8-15

N. C., Greensboro—D. R. and L. E. Yates, 415 Lindsay St., completed frame work of \$10,000 brick veneer store and office bldg., 417 Lindsay; 2 stories, 40x62 ft., conc. and wood floors; furnishings, equipment, etc., \$3500. See Want Section—Building Material and Equipment. 9-12

Okl., Oklahoma City — American - First National and Security National Banks will merge as First National Bank & Trust Co., Frank E. Johnson, Pres.; erect 25- to 30-story bank and office building; probably announce plans in 3 weeks.

Tex., Dallas—Brinkerhoff & Bennett, Amer. Exch. Bank Bldg., erect additional story to section of Oak Cliff Medical-Dental Bldg.; Flint & Broad, Archts., Melba Bldg.

Churches

D. C., Washington—Western Presbyterian Church, Rev. J. Harvey Dunham, Pastor, 2109 G St., N. W., approved plans for \$155,-

000 church and Sunday school, H St. near 19th St.; stone, 1 story; N. Hulme, Archt., 1524 Chestnut St., Philadelphia, Pa. 5-9

Fla., Yemassee—Baptist Church plans \$10,000 brick building.

Md., Baltimore—First M. E. Church, 22nd and St. Paul Sts., has bid from B. F. Bennett Building Co., 123 S. Howard St., for recreational and Sunday school bldg., extension; \$100,000, stone, 42x90 ft., flat roof, extend heating plant; Clyde N. & Nelson Friz, Archts., Lexington Bldg. 9-19

Md., Chewsville—United Brethren Church remodel and enlarge bldg.; brick, 1 story, and basement, wood floors, slate and composition roof, \$20,000; Witman & Royer, Archts., 36 E. Market St., York, Pa., preliminary plans.

Miss., Oxford—Methodist Episcopal Church, South, erect \$80,000 brick, steel, stone and wood frame bldg.; proposition will not be approved until Nov. 1; 2 stories, 155x120 ft., oak floors, conc. foundation, tile roof; furnishings, equipment, etc., \$12,000; Edwin B. Phillips, Archt., Fidelity Bk. Bldg., Memphis, Tenn. 9-19

Miss., Sherard—Methodist Episcopal Church erect brick veneer bldg.; 1 story, 64x65 ft., struct. steel, misc. iron, comp. shingle roof, steam heat; Estes W. Mann, Archt., Cotton Exch. Bldg., Memphis, Tenn.

Mo., St. Louis — First Church of Consolation, Rev. C. Rinderer, Pastor, has broken ground for bldg., 3010 Lemp Ave.

Tex., Seguin—Protestant Church erect \$32,000 bldg.; brick, cast stone and tile, 1 story, balcony and basement; Jeremiah Schmidt, Archt.; bids Oct. 3.

Tex., Austin — Grants Chapel A. M. E. Church, Rev. J. J. Monroe, Pastor, erect \$12,500 church, New York Ave. and Chicon St.; brick veneer, 1 story and basement.

Tex., El Paso — First Congregational Church plans \$10,000 bldg., Rio Grande and Williams Sts.; W. G. Wuehrmann, Archt., Two Republics Bldg.

Tex., Houston—Third Presbyterian Church has permit for \$22,500 bldg., 14th and Stude-wood Sts.

Va., Staunton — Emanuel Church receives bids Oct. 15 at office T. J. Collins & Son, Archts., for memorial parish hall; plans from Archts.

City and County

Ala., Anniston — City, Sidney J. Reeves, Mayor, may erect addition to Carnegie Library to house museum.

Ala., Gadsden—City, W. E. Weir, Mayor, considers remodeling and erecting 2- or 3-story addition to jail; Paul W. Hofferbert, Archt., Etowa Bldg.

Fla., Bonifay—Holmes County Bd. of Comms. receives bids Oct. 8 for jail; \$25,000; W. D. Willis, Archt. (lately noted contractor), Blount Bldg., Pensacola.

Ga., Arlington—Calhoun County Bd. of Comms., A. L. Miller, County Atty., Edison, plans courthouse.

Ga., Nahunta — Brantley County Bd. of Comms., Jos. B. Strickland, County Clk.,

Dwellings

Ala., Birmingham—A. W. Mangum, 806 Mc-Millan Ave., erect brick veneer residence; 1 story, comp. roof, furnace heat; Turner & Slater, Archts., Martin Bldg.

Ala., Birmingham — R. D. Tobien, 1129 Thirteenth St., South Birmingham, erect brick veneer residence, Mt. Brooke Estates; 2 stories and basement, 50x75 ft., slate roof, steam heat; Warran, Knight & Davis, Archts., Protective Life Bldg.; bids in.

Ala., Birmingham—J. Edgar Bowron, First Natl. Bk. Bldg., erect brick veneer residence,

Rocky Ridge Park; 2 stories and basement, comp. roof, furnace heat; Turner & Slater, Archts., Martin Bldg.

Ala., Birmingham—W. C. Ollisby, 217 Malaga Ave., erect brick veneer residence, Mt. Brooke Estates; 2 stories, slate roof, steam heat; Turner & Slater, Archts., Martin Bldg.

Ala., Hueytown—Geo. Chartener erect \$10,000 residence; brick veneer, 1 story; T. C. Brasfield, Archt., 913 N. Seventh Ave.

Ala., Montgomery—M. W. Bradley, 1207 S. Court St., erect \$12,000 residence; brick veneer, 2 stories, hardwood floors, comp. roof; Weatherly Carter, Archt.

D. C., Washington—Wm. B. Caton, 2528 Pennsylvania Ave., S. E., erect 2 brick and cement block dwellings, 1903-05 Minnesota Ave., S. E.; 2 stories; \$10,000.

D. C., Washington—J. B. Tiffney, 419 Oglethorpe St. N. W., has permit for 4 brick dwellings, 418-24 Oneida Place, N. W.; 2 stories; \$27,000.

D. C., Washington—E. S. Beall, Jr., 1261 New Hampshire Ave., N. W., has permit for \$20,000 residence, 4101-03 Thirty-eighth St.; 2 stories.

D. C., Washington—Edna J. Sheehy, 918 F St., N. W., has permit for \$16,000 residence, 1851 Redwood Terrace, N. W.; brick and stone, 2 stories; Jas. E. Cooper, Archt., 1417 K St., N. W.

D. C., Washington—Porter & Lockie, Archts., 1800 E St., N. W., drawing plans for Colonial dwelling; brick, 2½ stories.

D. C., Washington—Edwin Jacobson, 1616 K St., N. W., has permit for 2 brick dwellings, 3611 Legation St. and 2428 Nevada Ave., N. W.; 2 stories; \$16,000.

D. C., Washington—J. E. Fox, 1736 Holly St., N. W., erect \$22,500 dwelling, 1801 Jonquil St., N. W., after plans by Laurence E. Allison, 3118 13th Ave.; brick and tile, 2 stories. 9-19

D. C., Washington—R. M. Burton, 930 H St., N. W., erect residence, 2949 Brandywine St., N. W.; plans by R. W. Berry, 7005 Meadow Lane, Chevy Chase.

D. C., Washington—Jas. N. Hughes, 1427 I St., N. W., has permit for 10 brick dwellings, 522-40 Twenty-fifth Place, N. E.; 2 stories; \$45,000.

D. C., Washington—Wm. F. Wade has permit for \$11,000 residence, 7714 Morningside Drive, N. W.; brick, 2 stories.

D. C., Washington—P. J. Grady, Investment Bldg., has permit for 5 frame dwellings, 609 Van Buren St. and 6510-22 Seventh Place, N. W.; 2 and 1 story; \$25,000.

Fla., DeLand—W. E. Douglass, Cleveland O., considers erecting residence, Michigan and Amelia Aves.

Fla., Miami Beach—Jas. H. Lang, New York, and Golden Beach near Miami Beach, erect rein. conc. conc. block and brick residence, Golden Beach; native rock and cast stone trim; 2 stories, 59x43 ft., tile, cement and wood floors, tile and comp. roof, wrought iron, Fenestra steel sash; John Bullen, Archt., Exchange Bldg., Miami, Fla.; bids in.

Fla., Miami Beach—Young & Goddard, Inc., 1009 Lincoln Rd., reported, plan 10 dwellings.

Ga., Atlanta—Mrs. J. J. Goodrum, 33 11th St., N. C., receives bids Oct. 15 for common and face brick, stucco and hollow tile residence; \$80,000, 2 stories, basement and attic, 115x41 ft., rein. conc. slabs, cement, stone, tile, and hardwood floors, copper and Buckingham slate or Lurowiel Celadon tile roof, Kerner incinerator; Hentz, Adler & Shutze, Archts., Candler Bldg.; following contractors estimating: Norwood Griffin Co., Bona Allen Bldg.; Chas. Black, Jr., Atlanta Trust Co. Bldg.; W. P. Francis, 201 Luckie St., N. W.; H. W. Oliver, Silver Bldg.; Collins, Holdbrook & Collins, Atlanta Trust Company Bldg. 9-12

Ky., Louisville—U. S. Engineer Office, P. O. Box 72, has low bid at \$29,780 from Dyer J. Lockwood, 2134 Edgehill Rd., for 6 keepers' cottages, Lock and Dam No. 48, Ohio River. 8-29

Ky., Louisville—Wm. D. Perkins, 2066 Eastern Pkwy., erect \$30,000 stone and conc. residence, 3520 Linden Lane.

La., New Orleans—Miss Sarah and Miss Mamie Butler erect additions to residence, Phillip St. near Camp St.; slate roof; Armstrong & Koch, Archts., Audubon Bldg.

La., New Orleans—Rev. D. H. Wattley, 7926 Freret St., erect Colonial residence, Metairie Club Gardens; frame, 2 stories, 90x45 ft., rein. conc. foundation, tile and hardwood floors, slate roof, 2-car garage

and laundry, 6 columns; Lockett & Chachere, Archts., Balter Bldg.; plans ready about 30 days.

Md., Baltimore—Geo. A. Gebb, Mayfield and Crosland Aves., erect \$12,000 residence, 204 Witherspoon Rd., Homeland; stucco and stone, 2 stories.

Md., Baltimore—Jacob France, Pres., Mid-continent Petroleum Corp., erect residence, Old Court Rd. near Green Spring Ave.; Wm. Gordon Beecher, Archt., 12 E. Pleasant St.; R. Brooke Maxwell, Landscape Archt., Old Town Natl. Bank Bldg.

Md., Baltimore—City Real Estate Co., 11 E. Fayette St., purchased 25-acre tract bounded by Ellamont, Dorchester, Barrington and Denison Rds.; erect dwellings.

Md., Chevy Chase, branch Washington, D. C.—E. M. Willis, Jr., Tower Bldg., 14th and K Sts., N. W., erect \$15,000 residence and garage; brick, 2½ stories; Geo. T. Santmyers, Archt., 1416 I St., N. W., both Washington.

Md., Baltimore—Henry Feldman erect 7 brick dwellings, 3407-18 Woodbine Ave.; 2 stories; \$20,000.

Mo., Jefferson City—Dr. J. F. Brawley, 235 W. High St., erect \$10,000 Spanish type residence; brick and stucco, 1 story and basement, 32x46 ft., tile baths, tile and comp. roof, oak floors, vapor heat; LeRoy Parrish, Archt., 115½ W. High St.

Mo., Jefferson City—Louis L. Ott, 119 W. High St., erect \$65,000 brick, steel and terra cotta residence, Morrow Drive and Elmore Ave.; 2 stories, attic and basement, 50x60 ft., 12x24-ft. glass-enclosed porch, 14x18-ft. solarium; LeRoy Parrish, Archt., 115½ W. High St.

Mo., Kansas City—A. Hardgrave, care Kansas City Club, 21st and Campbell Sts., erect 2-story brick residence, 630 Westover Rd.; C. A. Smith, Archt., Finance Bldg.

Mo., Kansas City—W. C. Erwin, 4520 Madison Ave., erect \$25,000 residence, 1262 Huntington Rd.

Mo., Poplar Bluff—Allen C. Garner erect \$15,000 residence, Ninth St. near Maud St.; brick, 2 stories.

N. C., Charlotte—R. W. Mitchell, 507 N. Graham St., erect 2 dwellings, Biltmore Drive; \$12,500.

Okla., Tulsa—Mrs. D. E. Fields, 19 E. 18th St., erect \$10,000 residence; brick veneer, 1 story, 28x67 ft.; Chas. S. Dilbeck, Archt., Commercial Bldg.

Okla., Tulsa—Harry E. Hudson, Atlas Life Bldg., erect \$11,500 residence.

S. C., Rock Hill—Winthrop College Bd. of Trustees, Jas. P. Kinard, Pres., receives bids until Oct. 10 for constr. and heating of residence; drawings from Edwards & Sayward, Archts., 101 Marietta St., Atlanta, Ga.; following contractors estimating: R. H. Deas; J. E. Healan; E. D. Bowers, all Rock Hill; J. J. McDewitt, Builders Bldg., Charlotte, N. C.

Tenn., Knoxville—R. L. Eason, 3224 Cherokee St., Memphis, erect stone residence, Old Covington Pike near Knoxville; 2 stories, hardwood floors, tile bath and roof.

Tenn., Nashville—Bernard Werthan, 1400 Eighth Ave., North, cypress siding residence, Bellemeade; 2 stories and basement, 27x58 ft.; C. K. Colley & Co., Archts., Fourth & First Bldg.; bids in.

Tex., Austin—Richard A. Hittson, Scarbrough Bldg., erect brick veneer French type residence, Pease Pkwy.; 2 stories, 9 rooms, 2 baths; Glenn C. Wilson, Archt., Milam Bldg.; preliminary sketches.

Tex., Dallas—Mrs. J. A. Skillers, 417 E. Ninth St., erect \$18,000 residence, 1122 N. Mont Clair St.; brick veneer, 8 rooms.

Tex., Dallas—Mrs. Henry Dorsey, 113 N. Marshall St., erect \$16,000 brick veneer dwelling, 1235 Lausanne St.; 9 rooms.

Tex., Dallas—Dr. J. S. Miller, 814 W. 12th St., erect 3 duplexes, 6100 block Lavista Drive; brick veneer, 2 stories, tile baths; \$18,000.

Tex., Houston—Evan Jones erect \$10,000 residence; Italian type, brick veneer, asbestos shingle roof; Einar H. Stube, Archt., 3940 Main St.; bids in.

Tex., Houston—W. A. Ryan, Warwick Hotel Apts., erect \$20,000 residence, 3221 Chevy Chase St.; frame and stucco, 8 rooms.

Tex., Houston—Max O. Juran, 1225 W. Drew St., erect \$12,000 residence, 2205 Wentworth St.; brick veneer, 8 rooms.

Tex., San Antonio—D. A. Skinner, 823 Hammond St., receives bids Oct. 7 at offices Harvey P. Smith, Archt., Natl. Bk. of Com-

merce Bldg., for duplex, Rosewood St.; brick veneer, 2 stories, 14 rooms, rein. conc. foundation.

Va., Charlottesville—Following plan residences, Farmington Country Club Estates: Dr. J. H. Neff; Mes. W. H. Sheppe; H. A. George; Mrs. W. A. Rinehart, Sr.; J. S. Gaiban; Dr. Walter Rothwell; J. M. Rothwell; Dr. Alfred Chanutin.

Government and State

Ala., Andalusia—Andalusia National Guard erect \$12,000 armory; gymnasium.

Ala., Montgomery—War Dept., Air Corps, Washington, D. C., probably call for bids about 2 weeks for \$150,000 two-story school as first unit of tactical school, Maxwell Field; contract 30 to 40 days later; \$2,500,000 to be available; work to include 7 barrack bldgs., hangars, landing field equipment, technical bldgs.; Maj. Walter R. Weaver, Commanding Officer, Maxwell Field. 4-4

Ark., Strawberry—Chas. Hooten, Postmaster, erect 1-story brick post office.

D. C., Washington—National Zoological Park having working drawings made by A. L. Harris, Municipal Archt., District Bldg., for reptile house; call for bids upon completion of specifications.

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., receives bids Oct. 9 for new ceiling, south portico, Treasury Bldg.

Fla., Tampa—Additional contractors estimating on extension and remodeling (except elevators) of post office, custom and courthouse building; English Construction Co., 1311 H St., N. W., Washington; Albert Voorkeeler, Melbourne, Fla.; Robt. S. Fiske, Healey Bldg., National Construction Co., Glenn Bldg., both Atlanta, Ga.; A. M. Lundberg, Railway Exch. Bldg., St. Louis, Mo.; Algernon Blair, First Natl. Bk. Bldg.; A. C. Samford, 301 Washington Ave., both Montgomery, Ala. bids Oct. 22 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C. 9-26

Ky., Henderson—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., receives bids Oct. 21 for workroom, mailing vestibule, etc., post office.

Okla., Tulsa—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., reported, plans addition to post office, Third St. and Boulder Ave.

Tex., Greenville—Ben W. Shepherd & Son, Box 558, Greenville, and John W. Grogan, Santa Fe, N. Mex., additional estimators on extension and remodeling of post office, bids Oct. 17 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C. 9-26

Tex., Randolph Field, Schertz—Constructing Quartermaster, Capt. A. W. Parker, receives new bids until Oct. 9 for 6 barracks and utilities, quartermaster and Air Corps warehouses, Randolph Field, as part of \$3,500,000 first unit of \$14,000,000 flying school; details in 8-22. 9-26

Tex., San Antonio—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., has low bid at \$10,958 from Theriault Contracting Co., 534 E. Johnson St., Philadelphia, Pa., for conc. stairway, hoistway, etc., post office. 9-12

Tex., San Antonio—War Dept., reported, expend \$450,000 over 3-yr. period for bldgs., Air Intermediate Depot, Capt. O. G. Trunk, Adjt.; work probably start in June; work includes \$350,000 machine shop.

Va., Richmond—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., probably call for bids Nov. 1 for 4-story east wing addition to post office; \$1,500,000 available. 5-2

Va., Lorton—Board of Public Welfare, District Bldg., Washington, D. C., is considering erection of bldg., surrounded by conc. wall, at District Reformatory to house Federal prisoners.

Hospitals, Sanitariums, Etc.

Ark., Batesville—Dr. M. S. Craig, Dr. O. J. T. Johnson and Dr. F. A. Gray sponsoring erection of hospital; call for bids within 2 weeks; John P. Almand, Archt., A. O. U. W. Bldg., Little Rock.

Ark., Booneville—Ancient Order of United Workmen, care Queen City Lodge No. 24, Van Buren, raising \$18,000 for bldg., Arkansas Tuberculosis Sanatorium.

Ga., Augusta—U. S. Veterans Bureau, L. H. Tripp, Ch. Constr. Div., Washington, D. C., receives bids Oct. 15 for rebuilding complete, elect. service line, U. S. Veterans Hospital.

La., Alexandria—Louisiana Hot Wells Co. establish health resort 16 miles from Alexandria; erect sanitarium. See Buildings Proposed—Miscellaneous.

Md., Perry Point—Following firms estimating on additions to refrigerating plant, U. S. Veterans Hospital, bids Oct. 8 by U. S. Veterans Bureau, Washington, D. C.: Frick Co., Washington; Servel Sales Co., Evansville, Ind.; Chatard & Norris, 218 Water St.; Pyles Refrigerating Engineering Co., 411 W. Pratt St., both Baltimore, Md.; Copeland Sales Co., 630 Lycastrale St., Detroit, Mich.

Mo., Excelsior Springs—U. S. Veterans Bureau, L. H. Tripp, Ch. Constr. Div., Arlington Bldg., Washington, D. C., receives bids Nov. 12 for buildings and utilities, U. S. Veterans Hospital, including roads, walks and drainage, also wrecking present M. O. C. residence; work includes excavating, rein. conc. constr., hollow tile, brick, cast stone, marble work, floor and wall tile, linoleum floors, iron work, flag pole, steel sash, steel stairs with slate treads, slate, metal and built-up roofing, roof ventilators, metal weather strip, metal lath, additional boiler plant equipment and outside sewer, water and steam and elect. distributing systems; separate bids for elect. elevator, elect. dumb waiter, refrigerating plant, Zeolite water softening system and steel water tank; \$900,000; administration and recreation bldg., nurses' home, M. O. C. residence and officers' quarters. 9-12

Mo., Sedalia—City, O. B. Poundstone, Mayor, receives bids Oct. 7 for \$200,000 hospital; T. W. Bast, Archt., 902 E. Seventh St., Sedalia; Harry A. Noble, Struct. Engr., Security Bldg., Kansas City. 8-29

Mo., St. Louis—City erect fireproof bldg. for X-ray film storage, City Hospital; brick, 1 story, 20x30 ft.

N. C., Asheville—B'Nai B'Rith Tuberculosis Sanatorium Assn. formed with Julius Lowenstein, Woodfin Apts., as president, to promote establishment of tuberculosis sanatorium; 33-acre tract donated by S. Sternberg; representatives of District Grand Lodge Independent Order of B'Nai B'Rith to discuss proposition Oct. 19-26.

S. C., Sumter—Toumey Hospital, Inc., open bids about Oct. 15 to Oct. 22 for fireproof hospital; plans ready about Oct. 1; \$100,000, 4 stories, 42x147 ft., mastic, tile and terrazzo floors, conc. foundation, built-up roof; Wilson & Tatum, Archts., Palmetto Bldg. See Want Section—Building Material and Equipment. 9-26

Tenn., Martin—Weakley County Hospital Assn. plans to enlarge hospital; install elevator and heating plant.

Tex., Beaumont—Dr. J. B. Mitchell, Clarksdale, Miss., plans clinic, Calder Ave. near Eighth St.; \$15,000 to \$20,000, tile and brick; Ben E. Irby, Archt., Goodhue Bldg.

Va., Richmond—Virginia Home for Incurables, W. Broad St., reported, plans building, Hampton St. opp. Shield's Lake, upon sale of present quarters.

W. Va., Lakin—State Bd. of Control, Dr. Jas. S. Lakin, Pres., Charleston, erect brooder house, septic tank and cottage at institution for colored tuberculosis patients and colored incorrigible boys; bids in.

Hotels and Apartments

Ala., Mobile—Royce Kershaw, of Royce Kershaw, Inc., Barnett Bldg., Jacksonville, Fla., and associates, plan \$250,000 hotel in connection with \$2,230,000 development of Dauphin Island for resort.

Ark., Harrison—Management Hotel Seville erect additional story; 26 rooms.

Ark., Siloam Springs—Ormond Griffin, St. Louis, Mo., Pres., Ward-Garrison Hotel Co., Fort Smith, Ark., having plans prepared by Haralson & Nelson, Merchants Bank Bldg., Fort Smith, for \$200,000, 5-story, brick, 60-room hotel.

Fla., Miami Beach—Ursem & Farrell erect \$75,000, 3-story, 6-unit DeLux apartment, Collins Ave. and 37th St.; John B. Reid & Co., Agents, 5th St. and Meridian Ave.

Ga., Atlanta—Moseley Dinkler Hotels Co., Carling L. Dinkler, Pres., erect \$10,000,000, 20-story Louis Dinkler Hotel, Peachtree and Ellis Sts.; 104 ft. frontage on Peachtree St., 400 ft. on Ellis St. and 102 ft. on Ivy St.; roof garden, ballroom to accommodate 1000 people, 400 car garage on Ivy St.; start work about Mar. 1, 1930; G. Lloyd Preacher & Co., Wynne-Clayton Bldg., Atlanta, Thompson, Holmes & Converse, 101 Park Ave., New York, Asso. Archts.

La., Alexandria—Louisiana Hot Wells Co. erect \$250,000 hotel in connection with development of Hot Wells for health resort. See Miscellaneous Buildings.

Mo., St. Louis—Wm. H. Lahey, 801 Chestnut St., erect 2-story and basement, 127x50 ft., brick, 18-apartment, Cates Ave. west of Goodfellow Ave.; comp. roof, tile baths, hardwood floors, terra cotta and cut stone trim, steam heat; Ben Shapiro, Archt., Syndicate Trust Bldg.

Okla., Tulsa—Ike Mincks, Pres., Blue Willow Corp., plans annex to Mincks Hotel, Fourth St. and Cheyenne Ave.

Tenn., Knoxville—Cowan Rodgers, Elmwood Place, erect apartment, Main and Market Sts.

Tenn., Memphis—Mrs. G. H. Dennison, 14 N. McNeil St., reported, erect 5-story, 43x166 ft. apartment and 1-story, 166x60 ft. building for stores, Madison Ave. and McNeil St.; \$250,000, comp. built-up roofs, tile baths, hardwood floors, steam heat; Geo. Mahan, Jr., Archt., Manhattan Bk. Bldg.

Tex., Blanco—C. E. Crist remodel old county courthouse for resort hotel.

Tex., Dallas—Reuben Gray, Republic Bank Bldg., erect \$50,000, 2-story, brick veneer apartment, 5027 Live Oak St.; tile roof, oak floors; W. I. Cole, Archt., Central Bank Bldg.

Tex., San Antonio—R. A. Wheeler, 115 Harrison St., plans 37 apartment houses; total cost \$70,000.

Tex., Texarkana—W. A. McCartney rejected bids, have plans revised and call for new bids for \$300,000, 11-story and basement, 75x140-ft., brick, rein. conc. and steel, 125-room hotel, Front and Main Sts.; Joseph Finger, Archt., Democratic Bldg., Houston. 9-19

Tex., Wharton—Giesecke & Harris, Archts., Second Natl. Bank Bldg., Houston, preparing plans for \$125,000, rein. conc., hollow tile and brick, stone trim hotel.

Miscellaneous

Ala., Mobile—Royce Kershaw, of Royce Kershaw, Inc., Barnett Bldg., Jacksonville, Fla.; C. G. Kershaw, Pres., C. G. Kershaw Contracting Co., and associates, plan \$250,000, 2-story, semi-U shape, Spanish type hotel; 50 cottages, piers, casino to cost about \$150,000, in connection with \$2,230,000 development of Dauphin Island for resort.

D. C., Washington—Mrs. Wilson Greene, 1300 G St., N. W., promoting organization of Washington Music Hall Realty Corp. for erection \$1,500,000 opera house; seating capacity 3000 people.

Fla., Stuart—Will H. Merrill erect restaurant, Dixie Highway; building to be 36 ft. square.

La., Alexandria—Louisiana Hot Wells Co. has completed plans for development of Hot Wells, 200-acre tract of land 16 mi. from Alexandria, for health resort; erect \$250,000, conc., stucco and tile, Spanish type hotel, sanitarium, bathhouse, bottling plant; provide golf course, swimming pool and other amusement features; total expenditure about \$500,000.

La., New Orleans—Tharp-Southmeier-Tharp, Inc., 3229 Carondelet St., erect 2-story, rein. conc. brick and stone trim mortuary building, S. Claiborne and Gen. Pershing Sts.; fireproof garage, built-up comp. roof, wood and tile floors; Jones, Roessle, & Olschner, Archts., Maison Blanche Bldg.

Md., Baltimore—S. H. Folkoff, First Natl. Bk. Bldg., erect 3-story brick and rein. conc. building, 1114-16 E. Lombard St., for Russian Turkish bath; S. Russell, Archt., 11 E. Lexington St.

Md., Cockeysville—C. Wilbur Miller, Pres., Davison Chemical Co., Garrett Bldg., erect 1-story, frame horse stable; also grandstand to accommodate 1000 people; plans ready in about 2 weeks; Jos. Evans Sperry, Archt., Calvert Bldg., both Baltimore.

Mo., Farmington—Ozark Recreation Club purchased 20,000-acre tract on Highway 61, 10 mi. from Farmington, for development for clubhouse; plans call for 18-hole golf course, swimming pools, tennis courts, playgrounds for children, 2000 acres spring-fed lakes, clubhouse to accommodate 300 guests.

Mo., St. Louis—Benjamin A. Wood, care H. G. Clymer, Archt., Wainwright Bldg., remodel 4-story and basement brick building, 3561 Lindell Blvd.; bids in.

Okla., Oklahoma City—Rancho Beach and Country Club, Perrine Bldg., soon call for bids for \$150,000, 3 and 4 story, rein. conc. and stucco clubhouse; Spanish type; Joe E. Davis, Archt., First Natl. Bank Bldg.

Tenn., Chattanooga—Florence Crittenton Home Bd. of Trustees, Mrs. S. A. Williams, Local Pres., plans building.

Tex., Beaumont—United Charities, Z. F. Keith, Chmn., Bldg. Comm., Cherry-Leicht Bldg., having plans prepared by Wilson & Heartfield, Goodhue Bldg., for hospital, cold storage unit, etc.; \$150,000.

Tex., Corpus Christi—J. M. Parker, Frank E. Jones, both 900 Land Bank Bldg., Kansas City, and associates plan concessions, hotels, bath houses, dancing pavilions, piers, recreation park, etc. in connection with development Padre Island for health and pleasure resort.

Tex., Cuero—Cuero Country Club erect 48 x62 ft. brick, hollow tile and stucco Spanish type clubhouse on golf links on Cuero-Victoria highway; tile roof; also construct swimming pool.

Tex., Dallas—State Fair of Texas Assn., T. E. Jackson, Pres., plans \$600,000, conc. and steel stadium to seat 80,000 spectators, as memorial to soldiers, sailors and marines of World War and other wars.

Tex., Harrisburg, Houston—Boulevard Undertaking Co., J. V. Cossaboom, Pres.-Gen. Mgr., erect 2-story, hollow tile and brick, cast stone trim funeral home, 6900 block Harrisburg Blvd.; Chas. S. Chase, Jr., Archt., Post-Dispatch Bldg.

Tex., Houston—Joseph Finger, Archt., Democratic Bldg., erect \$50,000 2-story and mezzanine, 50x100 ft. building, S. Main St. between Rosedale and Portland Sts.; to be leased to Barker Brothers, Los Angeles, Calif., for studio of interior decoration; Robert D. Harrell, Local Mgr. for Barker Brothers located in Warwick Hotel.

Tex., Houston—Brazewood Courts, Leo Dillingham, representative, 82 Wall St., New York, and 525 Neils Esperson Bldg., Houston, plans to begin work soon on 200 6-room, semi-fireproof duplex bungalows in connection with development 40-acre tract east side of Main Boulevard for tourist camp to be known as Brazewood Courts; \$2,000,000, brick veneer, hardwood floors, shower baths, central heating and cooling system; ultimate plans call for 600 bungalows; plans being prepared by A. C. Stimson of Stimson Engineering Co., Republic Bldg.

Tex., Port Arthur—Sisters of Blessed Sacrament have permit for \$19,000 convent building, 900 Washington Ave.

Railway Stations, Sheds, Etc.

Miss., West Point—Mobile & Ohio R. R. Co., B. A. Wood, Ch. Engr., St. Louis, Mo., erect \$25,000, 32x120 ft., brick and stucco passenger station; asbestos shingle roof; Chas. H. Hayes, Archt., for R. R. Co., St. Louis.

Tex., Fort Worth—Texas & Pacific Rwy. Co., E. F. Mitchell, Ch. Engr., Dallas, soon call for bids for \$6,000,000, 8-story freight terminal—first unit (incoming freight), 600 x 100 ft., second unit (out-going freight), 700 x 100 ft.; also for \$2,000,000 passenger station; all brick and rein. conc.; 6 lines of track and transfer platform; Wyatt C. Hedrick, Inc., First Natl. Bk. Bldg., Fort Worth. 5-30

Schools

Ala., Ensley—Bd. of Education, Erskine Ramsay, Pres., plans \$100,000 stadium to seat 4000 people and athletic field at Ensley High School.

Ala., University—University of Alabama, Dr. Geo. H. Denny, Pres., soon ready for bids for \$100,000, 2-story and basement, 45x90 ft., brick, stone, rein. conc. gymnasium for women; steam heat, gypsum block or slate roof; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham.

Ark., Fort Smith—The Church of the Immaculate Conception, Rev. R. F. Horan, Pastor, 210 S. 13th St., soon ready for bids for \$150,000, 5-story, 135x189-ft., brick, conc., stone and steel grade school, A and 13th Sts.; accommodate 420 pupils, consist of school proper of 6 classrooms, gymnasium, auditorium and roof garden; clay tile roof, terrazzo floors in corridors, kitchen and stairs, steam heat; Bassham & Wheeler, Archts., Kennedy Bldg.

D. C., Washington—American Institute of Architects, 1741 New York Ave., N. W., Washington, D. C. Everett Waid, Chmn., Bldg. Comm., 1 Madison Ave., New York, restore Madison House.

D. C., Washington—Prof. Knight Dunlap, Psychology Dept., Johns Hopkins University, Baltimore; Dr. Edgar Slosson, Dir. of Science Service, Washington, and associates plan to establish national research center for psychological problems; incorporate National Institute of Psychology and erect and equip buildings in or near Washington.

Ga., Canton—Bd. of Education plans new schools and number additions; \$150,000.

Ga., Dalton—Valley Point Consolidated School Dist., J. W. Godfrey, Trustee, defeated \$20,000 bonds for school. 9-5

Ga., Forsyth—Monroe County Bd. of Education, Dr. T. D. Thurman, Supt., selected Wm. J. J. Chase, 140 Peachtree St., Atlanta, to prepare plans for \$75,000, 2-story brick high school; comp. roof; election Oct. 16 on \$75,000 bonds. 9-26

Ga., Tennesse—Tennille School Dist. voted \$50,000 bonds for 1-story and basement, brick, 12-classroom and auditorium grammar school; W. Elliott Dunwoody, Archt., 460 Broadway, Macon; bids in. 9-19

Ky., Bellevue—City voted \$110,000 bonds to erect school and for school improvements; Bd. of Education. 8-15

La., Alexandria—Weiss, Dreyfous & Seiferth, Archts., Maison Blanche Bldg., New Orleans, complete plans in about 30 days for \$50,000, 1-story, rein. conc., brick, stone trim dormitory at State Colony and Training School near Camp Beauregard; accommodate 48 patients, 6-room gamelback to contain operating rooms; slate roof, tile, terrazzo and maple floors.

La., Algiers, New Orleans—Following contractors estimating on 3-story, 40-classroom, rein. conc., brick and stucco Martin Behrman Public School, bids Oct. 11: J. A. Petty & Sons, Inc., Godechaux Bldg.; Chas. Gilbert, Canal Bk. Bldg.; R. P. Farnsworth & Co., Maritime Bldg.; Gervais F. Favrot, Balter Bldg.; Dalgarn Construction Co., Louisiana Bldg.; O. M. Gwin Construction Co., Union Indemnity Bldg.; E. A. Christy, Supvg. Archt. for School Bd. 9-19

La., Gretna—Jefferson Parish School Bd. receives bids Oct. 19 for two 4-room frame cottages, Ames Farms and Ward 7; Theo. L. Perrier, Archt., Maritime Bldg., New Orleans.

Md., Baltimore—Public Improvement Commn., H. J. Leimbach, Supvg. Engr., expend \$17,000 for repairs to cornices, coping and sills of 17 schools.

Md., Baltimore—Bd. of Awards has low bid at \$247,400 from Davis Construction Co., 9 W. Chase St., for Highlandtown School, 18th St. and Foster Ave.; 3 stories and basement 185x62 ft., brick and conc., fireproof, stone trim, wood and conc. floors, built-up roof; Herbert G. Jory, Archt., Munsey Bldg.; H. G. Perring, Struc. Engr., Court Square Bldg.; James Posey, Mech. Engr., 201 W. Franklin St. 9-12

Md., Baltimore—Board of Awards receives bids, in duplicate, Oct. 9 for Glenmount School, Glenmount Ave. near Belair Road; 2 stories, 248x63 ft., 16 classrooms, stone, slate roof, wood floors in classrooms, cement floors in corridors; plans at office H. J. Leimbach, Supvg. Engr., Public Improvement Commn., 324 City Hall; Flournoy & Flournoy, Archts., 206 St. Paul St.; H. G. Perring, Struc. Engr., Court Square Bldg.; James Posey, Mech. Engr., 201 W. Franklin St. 8-22

Md., Rockville—Montgomery County School Commrs., E. Broome, Sec., rejected bids for \$30,500, 1-story, brick elementary school at Alta Vista; H. W. Cutler, Archt., 1800 E St., N. W., Washington, D. C. 8-15

Md., Towson—Baltimore County School Bd., S. Shoemaker, Pres., ready for bids for \$70,000, 2-story, brick grade school, Pemberton Road between Copeleigh Road and Kenleigh Road, Stoneleigh; Smith & May, Archts., Calvert Bldg.; Huldreich Egli, Mech. Engr., 425 St. Paul St., both Baltimore.

Md., Waldorf—Charles County School Commn., P. Bernard Gwynn, Supt., LaPlata, soon ready for bids for \$25,000, 1-story, brick grade school; J. M. Armstrong, Archt., Annapolis.

Miss., Bay St. Louis—St. Stanislaus College, Brother Peter, Pres., open bids about Oct. 16 for \$75,000, 2-story, rein. conc., brick and stone trim chapel, refectory and study hall; convert present chapel into dormitory; plans from A. S. Montz, Archt., 740 Poydras St., New Orleans. 9-5

Miss., Hattiesburg—School Bd., W. I. Thomse, Supt., ready for bids about Dec. 1 for \$250,000, brick, fireproof, stone trim junior high school and two \$50,000, brick grade schools; Hull & Malvaney, Archts., Merchants Bk. Bldg. 8-22

Miss., Summit—Bd. of Education plans primary and elementary school; election Oct. 14 on \$9000 bonds.

Miss., Tougaloo—Bd. of Trustees, Tougaloo College for Negroes open bids about Oct. 14 for \$12,000, 1-story, 37x60 ft., rein. conc. and brick laundry building; cement floor, asbestos roof; Hull & Malvaney, Archts., Merchants Bk. & Trust Co. Bldg., Jackson.

Mo., Columbia—University of Missouri, Glen J. Gegner, Student President, started campaign for \$250,000 for memorial union building.

N. C., Chapel Hill—University of North Carolina, Dr. Harry W. Chase, Pres., has gift of \$40,000 for erection auditorium addition to old Carnegie Library which is now being refitted for music hall.

Okla., Altus—Altus School Dist. considering vote on \$200,000 bonds for building program; T. M. Robinson, Pres., Bd. of Education.

Okla., Middleberg—Bd. of Education, Glen S. Brown, Clk., erect 1-story, brick and conc. school; comp. roof, wood floors; E. H. Eads & Co., Archts., Chickasha; bids in.

S. C., Greenwood—Bd. of Education, H. L. Watson, Chmn., receives bids Oct. 8 at office Grier, Park & McDonald, for 2-story and basement, 88x90 ft., 6-room and addition to grammar school and 2-story and basement, 140x72-ft., 8-classroom and gymnasium addition to high school; both rein. conc., brick, hollow tile, Indiana limestone trim, comp. roofs; Chas. C. Wilson, Archt., Palmetto Bldg., Columbia; J. C. Hemphill, Asso. Archt., Greenwood. 8-15

S. C., Spartanburg—Wofford College, Dr. Henry N. Snyder, Pres., soon start work on 4 steel bleachers to seat 3000 spectators.

Tex., Austin—State Bd. of Control, R. B. Walthall, Chmn., soon call for bids, probable date opening bids Oct. 16, for \$45,000, 2-story, 78x34 ft. dormitory, with 2 wings each 50x34 ft.; \$11,000, 1-story, 32x68 ft. ice plant and \$22,000, 2-story, 34x68 ft. central kitchen and dining room addition at Austin State School; all buildings brick, rein. conc., fireproof, built-up roofs, cement, tile and terrazzo floors, stone trim; H. F. Kuehne, Archt., Littlefield Bldg. 9-12

Tex., El Paso—Bd. of Education, A. H. Haughey, Supt., erect high school; \$350,000, 2 stories, 48 rooms, brick, terrazzo floors, 40x80 ft. gymnasium, cafeteria in basement to accommodate 800 students, library 64x80 ft.; bids about Nov. 20; Guy L. Frazer, Archt., Martin Bldg.; Brauntion & McGhee, Asso. Archts., First Natl. Bk. Bldg.

Tex., Denton—Bd. of Education, W. T. Doggett, Supt., receives bids Oct. 15 for \$22,000 gymnasium for Denton High School. 9-12

Tex., Groveton—Groveton Ind. School Dist. voted \$34,000 bonds. 9-12

Tex., Laredo—Laredo Ind. School Dist. Bd. of Trustees, J. C. Martin, Pres., erect 4-classroom and auditorium addition to 2-story, brick, rein. conc. A. M. Bruni elementary school; Giesecke & Harris, Archts., Norwood Bldg., Austin; Lloyd D. Royer, Const. Mech. Engr., Smith-Young Tower, San Antonio; bids in.

Tex., Texarkana—City votes Oct. 15 on \$225,000 school bonds; erect \$150,000 high school.

Va., Naola—Amherst County Bd. of Education, W. D. Dox, Div. Supt., Amherst, erect school to replace structure destroyed by fire.

W. Va., Benwood—Union School Dist., Marshall County, votes Nov. 5 on \$150,000 bonds for addition and gymnasium at Union High School at Benwood, erection grammar schools at McMechen and Sherrard; J. D. Marple, Pres., Dist. Bd. of Education, McMechen; A. F. Dayton, Archt., 1506 Market St., Wheeling. 9-26

W. Va., McMechen—See W. Va., Benwood.

W. Va., Sherrard—See W. Va., Benwood.

W. Va., St. Mary's—State Bd. of Control, Jas. S. Lakin, Pres., Charleston, selected 700-acre site 4 mi. from St. Mary's for training school for feeble-minded.

Stores

Ala., Tuscaloosa—James F. Alston erect 3 stores, 6th St., between 21st and 22nd Aves.

D. C., Washington—A. Schulte, Inc., 901 Pennsylvania Ave., N. W., has permit for \$15,000, 2-story, brick and stone store, 1119 F St., N. W.

Fla., Miami—C. S. and J. P. Toms, 831 N. W. 13th St., erect commercial building, S. River Drive, between 3rd and 4th Sts.; E. L. Robertson, Archt., Calumet Bldg.; bids in.

Fla., Orlando—McCormick-Hannah, Inc., J. W. Fitzgerald, Sec., W. Jefferson St., recently reported to erect store to be leased to Sears, Roebuck & Co., Chicago, advises plans being held in abeyance. 9-26

La., Shreveport—E. R. Ratcliff, Giddens-Lane Bldg., erect \$75,000, 2-story, brick store, 708-10 Texas St., to be leased to Montgomery Ward & Co., Chicago; built-up comp. roof; Page Brothers, Archts., Austin Natl. Bk. Bldg., Austin, Tex.; Clarence W. King, Asso. Archt., Giddens-Lane Bldg., Shreveport.

Md., Bethesda—Benj. C. Perry erect 3-story, 31x66-ft. brick and stone store and

apartment; oak floors, slag roof; John M. Donn, Archt., 1223 Connecticut Ave., Washington, D. C. See Want Section—Building Material and Equipment.

Md., Crisfield—John A. Bradshaw erect brick store and apartment building.

Miss., Jackson—D. C. Simmons, 843 N. President St., and J. H. Howie, 949 N. State St., started work on 1-story, 57x64-ft. brick building, S. Lamar and Capitol Sts.

Miss., Jackson—Guarantee Bond and Mortgage Co., Merchants Bk. Bldg., receives new bids Oct. 7 for 2-story, 70x120 ft., brick and stone trim store and office building, Yazoo and President Sts.; separate bids on general contract, plumbing, electric wiring; Claude H. Lindsley, Archt., Lamar Life Bldg. 9-19

Miss., Laurel—F. W. Woolworth Co., F. R. Higgins, Local Mgr., remodel and enlarge store, Fifth Ave. and Central St.

Mo., Kansas City—J. C. Nicholls, Meyer Blvd. and Ward Bakery, erect 1 and 2 story and basement, 100x150-ft., rein. conc. and stone store and garage near Ward Bakery and Main St.; \$150,000; E. W. Tanner, Archt., Myer Blvd.

Tenn., Memphis—Mrs. G. H. Dennison plans stores. See Hotels and Apartments.

Tex., Corpus Christi—J. C. Penney Co., Paul V. Alexander, Local Mgr., Chaparral St., has low bid at \$59,966 from Dougherty-Nichols-Young Construction Co., Nixon Bldg., for enlargement and improvement of store.

Tex., El Paso—Given Bros. Shoe Co., 215 S. El Paso St., expend \$20,000 to remodel old Grecian Theater. Overland and El Paso Sts., for store; Guy L. Frazer, Archt., Martin Bldg.

Tex., Fort Worth—United States Advertising Corp. has permit for \$19,000, 1-story, 96x267 ft., brick and conc. building, Camp Bowie Blvd. and Arch Adams St.

Tex., San Antonio—Campbell Lumber Co., 1337 S. Flores St., has permit for \$41,500 store, S. Flores St.

Tex., Sweetwater—H. B. Allen, Bluebonnet Hotel, erect \$50,000, 2-story, 50x140 ft., brick, stone, rein. conc. business building; S. B. Haynes, Archt., Myrick Bldg., Lubbock; bids in.

Va., Martinsville—K. C. White erect \$10,000 store, Fayette St. and Public Square.

Theaters

Ark., El Dorado—Management Majestic Theater remodel building.

Md., Baltimore—Edmondson Amusement Co., L. J. Schlichter, Mgr., 2108 Edmondson Ave., soon let contract for remodeling theater, Edmondson Ave. west of Pulaski St.; 1 story, brick; J. J. Zink, Archt., 2826 Overland Ave.

Warehouses

D. C., Washington—George Hyman, 1010 Vermont Ave., N. W., erect \$20,000, 1-story, brick storage shed, Brightwood Road and T St., N. E.

La., Natchitoches—Avoyelles Wholesale Grocery Co., J. E. Eford, Mgr., soon call for bids for 1-story, 100x80 ft., rein. conc. and brick warehouse and office building, St. Denis St. near Texas & Pacific R. R., to replace burned structure; built-up comp. roof; E. Leo Ball, Archt., 1746 Levin St., Alexandria. 8-20

Md., Baltimore—Canton R. R. Co., Ernest Tucker, Sec.-Treas., South and Water Sts., erect \$20,000, 1-story steel warehouse on Newgate Ave.

N. C., Wilson—Tom C. Gary, Lexington, Ky., plans warehouse.

Okla., Tulsa—Pittsburgh Equitable Meter Co., 400 N. Lexington Ave., Pittsburgh, Pa., A. J. Kerr, Local Mgr., erect 1-story, 150x140 ft., stucco on metal lath, steel frame warehouse; Rush, Endacott & Goff, Archts., Wright Bldg., Tulsa.

Tenn., Knoxville—Planters Tobacco Warehouse Co. has permit for \$15,000 warehouse, Bonnie View.

Tenn., Memphis—Texas Company, 672 Cox St., erect \$20,000, 1-story, brick warehouse and storage tank, Cox St. and N. C. & St. L. R. R.; comp. built-up roof, conc. and wood floors; Estes W. Mann, Archt., Cotton Exchange Bldg.

Tex., Center—O. H. Polley erect \$20,000, 2-story brick building to be occupied by Tol Smith, agency for International Harvester farm implements and trucks.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Tex., Goose Creek—Goose Creek Odd Fellows Hall Assn., R. F. Dial, Pres., let contract at about \$29,000 to J. H. Gaught, 207 Norwood St., Houston, for lodge bldg.; brick and hollow tile, 2 stories, 50x100 ft., 4 stores on first floor; L. Gabert, Archt., 1315 Bell St., Houston. 8-8

Tex., San Antonio—Salvation Army let contract to J. S. Cross for \$11,000 bldg., 806 Staples St.; brick, 1 story, 30x70 ft.; hall seat 200.

Bank and Office

Ky., Louisville—United States Realty & Improvement Co., 111 Broadway, New York; 20-story Medical Arts Bldg.; Holabird & Root, Archts., 333 N. Michigan Ave., Chicago, Ill., advise project held to abeyance. 4-11

Md., Baltimore—C. F. O'Connor, 3010 Gwynns Falls Pkwy., has brick contract for addition to Safe Deposit & Trust Co. Bldg.; steel, Dietrich Bros., 220 Pleasant St.; elec. work, Blumenthal-Kahn Electric Co., 518 N. Charles St.; Lawrence Hall Fowler Archt., 347 N. Charles St.; John E. Marshall & Son, Contrs., 117 South St. 3-7

Mo., Kansas City—Baltimore Land Co., Clark H. Smith, Pres., Pioneer Tr. Bldg., let contract at \$765,000 to Manhattan Construction Co., Manhattan Bldg., Muskogee, Okla., for 12-story International Bldg., 11th St. and Baltimore Ave.; Eleventh & Baltimore Corp. organized; conc. frame, brick and terra cotta, marble, tile and linoleum floors, conc. foundation, comp. roof; offices and stores; Alonzo H. Gentry, Archt., March Bldg.; financing through Prescott-Wright-Snyder Co., 718 Baltimore Ave., both Kansas City; start wrecking bldg. on site Oct. 3. 8-29

Tex., Port Arthur—Port Arthur Plumbing Co., 428 Fort Worth Ave., has plumbing contract for \$250,000 First National Bank Bldg.; elect. wiring, fixtures and refrigeration, Martin Lumber Co., 401 Sixth St., both Port Arthur; plastering, Williamson-Greer Co., Dallas Natl. Bank Bldg.; heating, C. Wallace Plumbing Co., Inc., 2224 Summer St., both Dallas, Tex.; calcimining and fireproofing, Robt. Voigtlander, Electric Bldg., Houston, Tex.; Pavrot & Livaudais, Ltd., Archts., Hibernia Bldg., New Orleans, La.; Christy-Dolph Construction Co., Constr. Industries Bldg., Dallas, and O. W. Collins, 1643 Norfolk St., Houston, contractors. 9-12

Churches

Mo., St. Louis—Following sub-contracts let on \$100,000 Grand Ave. M. E. Church South: Ready mixed conc., General Material Co., Butler Bldg., cut stone, Harding & Cogswell, Inc., Ellettsville, Ind.; struct. steel, Missouri Bridge & Iron Co., Fullerton Bldg.; millwork, Lecoutour Bros. Stair Co., 3176 Brannon St.; steel sash, Crittall Casement Window Co., Chemical Bldg.; plastering, J. Brenner Plastering Co., 4632 Tower Grand Pl.; face brick, McEwing-Thomas Brick Co., Fullerton Bldg.; plumbing, Arthur Maier Plumbing Co., 3653 Gravois Ave.; slate roof, Geo. E. Lloyd; elect. work, Chas. Sutter Electric Co., 1303 Pine St.; stair work, J. W. Reinhardt Stair Co., 25 S. 15th St.; sheet metal, Mount Rose Cornice & Sheet Metal Co.; glazing, Pittsburgh Plate Glass Co., 1106 Central Industrial St., all St. Louis; Ferrand & Fitch, Archts., 6188A Delmar Blvd.; Fruin-Colnon Contracting Co., Contr., Merchants-Laclede Bldg. 8-15

Mo., St. Louis—Berean Seventh Day Adventist Church, erect \$17,000 bldg., Sarah St. near Cook Ave.; brick and stone, 1 story and basement, 41 x 79 ft., asphalt shingle roof, terra cotta, copper sheet metal work, steam heat; O. J. Popp, Archt., Arcade Bldg.; Albert Ellicock Realty Co., Contr., 815A Chestnut St.

Mo., West Plains—First Methodist Church, Rev. H. T. Foster, Pastor, let contract to Fred G. Fisher, West Plains, for \$50,000 church and Sunday school; Gothic type, pipe organ; Earl Hawkins, Archt., McDaniel Bldg., Springfield; Raymond D. Holt, Constr. Supvr., care West Plains Lumber Co. 9-19

Tex., Bartlett—First Baptist Church I. N. C. let contract for \$30,000 church to J. B. Moore; first floor walls up; brick, cement, tile and rein. steel, 3 stories, 116x58 ft., asbestos shingle and comp. roof; address proposals on furnishings, equipment, etc., \$5000, to Rev. M. W. Lanier, Pastor, or J. V. Morris, P. O. Box 64; plans by Contr. 8-22

Tex., Houston—George Kilgen & Sons, Inc., 4016 N. Union St., St. Louis, Mo., has con-

tract for 4-manual pipe organ for \$750,000 St. Pauls M. E. Church under constr.; Alfred C. Finn, Archt., Bankers Mtg. Bldg.; Southwestern Construction Co., Contr., West Bldg. 6-6

Tex., Houston—Lawndale Ave. Baptist Church, Rev. Thornton A. Payne, Pastor, erect \$10,000 bldg.; brick veneer, conc. foundation, 1 story, Sheetrock, tar and gravel roof; A. B. Norris, Contr., 1011 Tuam Ave.

Tex., San Benito—First Christian Church let contract to W. P. Mallory for 46x28-ft. addition; work started.

City and County

Ala., Huntsville—J. W. Chambers Lumber Co., Athens, advises has not contract to remodel Madison County courthouse. 9-26

Fla., Vero Beach—Indian River County Bd. of Commrs. let contract to Pauly Jail Building Co., 2215 DeKalb St., St. Louis, Mo., for \$22,000 jail, Brae Burn Park. 9-19

Ga., Atlanta—City, C. E. Kauffman, City Engr., erect \$40,000 refreshment stand, Grant Park; frame, stucco and metal lath, 100 x 100 ft., comp. roof; owner builds.

Miss., Pelahatchie—City let contract to Frank Thompson, Jackson, for \$10,000 city hall; light face brick, stone trim, 50x70 ft., wood floors, flat built-up roof; Hull & Malvaney, Archts., Merchants Bank & Trust Bldg. 6-27

Tenn., Memphis—City let contract at \$13,800 to F. J. Ozanne & Co., Empire Bldg., for fire engine house No. 17, Broad St. and National Ave.; E. L. Harrison, Archt., Fidelity Bk. Bldg. 9-19

Tenn., Nashville—City, S. H. McKay, Clk., let contract to J. B. Regan, 127 Fifth Ave., North, for brick and stone fire station, 3504 Harding Rd.; 2 stories; Asmus & Clark, Archts., Nashville Tr. Bldg.

Tex., El Paso—City let contract at \$27,000 to Ramey Bros., Mills Bldg., for fire station and drill tower; steel and rein. conc., 2 stories, linoleum floors, conc. foundation, Spanish tile roof; Trost & Trost, Archts., Two Republics Bldg. See Want Section—Building Material and Equipment. 9-19

Tex., Paducah—Cottle County Commrs. Court let contract at \$157,641 to H. W. Underhill Construction Co., Wichita, Kan., and Dallas, Tex., for brick, steel, rein. conc. and stone courthouse; 4 stories, 90x115 ft., tile, linoleum, terrazzo and cement floors, rein. conc. foundation, 20-yr. tar and gravel roof; Voelcker & Dixon, Archts., Perkins-Snyder Bldg., Wichita Falls; plumbing and heating at \$13,508, Young & Pratt, Lubbock; wiring, W. M. Smith Electric Co., 1907 Bryan St., Dallas, at \$2,125. See Want Section—Building Material and Equipment. 9-19

Dwellings

D. C., Washington—W. Waverly Taylor, Inc., 1522 K St., N. W., has permit for 9 brick dwellings, 1519-35 Forty-fourth St., N. E.; 2 stories; \$100,000; W. Waverly Taylor, Jr., Archt.; owner builds.

D. C., Washington—J. B. Shapiro Construction Co., 1416 I St. N. W., has permit for 2 brick dwellings, 1725-27 Hobart St. N. W.; also for 10 at 500-18 Oneida St. N. W.; 2 stories; \$84,000.

Fla., Miami Beach—R. Hugh Woods erect \$10,000 residence and garage, 1062 W. 47th St.; A. L. Sammons, Contr., Collins Ave. and First St.

Fla., Miami—Mrs. Jas. A. Allison, Star Island, let contract to John B. Orr, Inc., 147 N. E. Sixth St., for \$35,000 residence and garage, 3746 Chase Ave.; frame, conc. foundation, wood shingle roof; Wm. S. Green, Archt., 1107 Fifth St. 7-25

Fla., Miami Beach—C. D. Edgars, New York and Miami Beach, let contract to Wm. F. Bonsack, 1659 Alton Rd., Miami Beach, for \$20,000 residence, N. Meridian Ave.; rein. conc., conc. block and stucco, 2 stories, 2-car garage; John & Coulton Skinner, Archts., French Village, Coral Gables, Fla.

Fla., Tallahassee—Jos. A. Edmondson, 304 N. Monroe St., let contract to Wilson Construction & Supply Co. for \$20,000 residence; 2 stories and basement, frame, hardwood floors, asbestos shingle roof, brick foundation; Alvin R. Moore, Archt., Continental Bldg. 9-12

Ga., Atlanta—T. J. Hightower, Jr., Peachtree Rd., remodel residence; Morgan, Dillon & Lewis, Archts., Grant Bldg.; Brazell-

Miller Co., Contr., Norris Bldg.; all sub-contracts let.

Ga., Atlanta—D. W. Denton, 1074 Rock Springs Rd., N. E., erect \$10,500 residence; 2 stories, hardwood floors, steam heat; owner builds.

Ga., Atlanta—R. V. Rose erect brick veneer residence; hardwood and tile floors, comp. roof; J. G. Grissim, Contr., Peachtree Arcade Bldg.

Ga., Rome—Jacobson Plastering Corp., Candler Bldg., Atlanta, has lathing and plastering contract for residence for A. F. Selman; Lockwood & Poundstone, Archts.; Edw. F. Billie, Asso. Archt., both 101 Marietta Bldg., Atlanta; day labor.

La., New Orleans—John Kreller erect double dwelling, Rosseau St. near St. Marys St.; Walker Construction Co., Contr., 2232 Cadiz St.

La., New Orleans—Chas. Louviere, Contr., 510 S. Hennessy St., erect single raised residence, Alvar St. near N. Claiborne St.

La., New Orleans—B. C. Johnson, Contr., 1931 Painters St., erect single Spanish type dwelling; tile and built-up roof, tile bath.

La., New Orleans—A. Strenge, Contr., 3531 St. Anthony St., erect single raised dwelling, 2116 St. Denis St.; comp. roof, hot air heat.

La., New Orleans—J. E. Cockerhan, Contr., 940 St. Maurice Ave., erect double dwelling, 215 Driscoveille Ave.

La., New Orleans—W. E. Jones, Contr., 2620 Wistaria St., erect single raised residence, Jasmine St. near Franklin Ave.; asbestos roof, rein. and struct. steel.

La., New Orleans—Arthur Scott erect \$19,000 residence, Castiglione and Gayoso Sts.; Martin Shepard, Archt., Balter Bldg.; J. A. Haase, Jr., Contr., 916 Union St.

La., Shreveport—Mrs. W. D. George, 859 Wilkinson Ave., let contract at \$45,800 to M. C. Brown, for residence; Dixie Rd.; Edw. F. Neild, Archt., both City Bk. Bldg.

La., Shreveport—Ed. Jacobs, 952 Oneonta St., will probably let contract to H. & B. Construction Co., Ricou-Brew Bldg., for fireproof residence, South Shreveport; Edw. F. Neild, Archt., City Bk. Bldg. 8-8

La., Shreveport—Walter Jacobs, will probably let contract for \$50,000 residence to H. & B. Construction Co., Ricou-Brew Bldg., Clarence W. King, Archt., Giddens-Dane Bldg. 8-29

Md., Baltimore—Walter Meyers, 3321 Gwynns Falls Pkwy., erect 4 frame dwellings, 3105-11 Westfield Ave.; 1 and 1½ stories, 30.8 x 25 ft. and 19.6 x 28 ft.; \$10,000; owner builds.

Md., Baltimore—Parkhill Realty Co. erect \$12,000 cinder block dwelling and garage, 6811 Park Heights Ave.; 2 stories, 40x32 ft. and 20x20 ft., slate roofs, hot water heat; Bernard Evander, Archt., 20 E. Lexington St.; Henry A. Knott & Co., Contrs., 2107 N. Charles St.

Md., Baltimore—John Welsh, 11 E. Fayette St., erect 9 brick dwellings, 2600 block Forest Park Ave. and 4813-15 Coleberne Ave.; 2 stories; \$30,000; George Wessel, Archt., 601 W. 40th St.; owner builds.

Md., Baltimore—B. Constable, 311 W. 31st St., and E. J. McGraw, 5002 St. Albans Way, erect \$10,000 dwelling, 3811 St. Paul St.; stone and brick 3 stories, 60x30 ft.; Lewis & Westenheimer, Archts., 20 E. Lexington St.; owners build.

Mo., Clayton, St. Louis—A. B. Merriam and H. V. Hawes, 7750 Wise Ave., Richmond Heights, erect \$17,000 duplex, 909 Oleta Ave., Davis Place; 37x51 ft., vapor heat; owners build.

Mo., Clayton, St. Louis—E. N. Serrano, 6128 Pershing St., erect \$16,000 residence, 6305 Tuscany Park; brick, 2 stories, 39x61 ft., conc. foundation, tile roof, hot water heat; Thos. Rednour, Contr., 7959 W. Cleveland Ave.

Mo., Clayton, St. Louis—Rae Agatstein, 6352 Southwood St., erect \$15,000 residence, 819 Moorlands Drive; 2½ stories, 40x33 ft., conc. slab, slate roof, hot water heat; J. H. Williamson, Contr., 7039 Waterman St.

Mo., Kirkwood, St. Louis—Chas. Witte, 108 N. Taylor Ave., let contract for conc. block and stucco residence to L. E. Pierce, 4 Pitman Place, Kirkwood; 1 story and basement, 50x99 ft., hardwood floors, comp. shingle roof, tile bath, hot air heat; Dan Mullen, Jr., Archt., 18 N. Meramec St., Clayton. 8-15

Mo., St. Louis—M. Abraham erect \$25,000 residence, 6055 Lindell Blvd.; brick, 2 stories, 80x50 ft., comp. slate roof; Gale E. Henderson, Archt., Arcade Bldg.; J. Craig & Son, Contrs., 6337 Southwest St.

Mo., St. Louis—F. A. Berkel, 2162 Crescent St., erect 3 brick dwellings, Pasadena Hills and Beverly Hills; 26x36 ft., 30x29 ft. and 26x45 ft.; \$28,000; Shomar Construction Co., Contr., 2112 Pine St.

Mo., St. Louis—Killebrew Bros., 5592 Waterman Ave., erect 3 brick dwellings, 6474-80 Scanlan St.; 1 story, 24x40 ft., comp. shingle roofs, steam heat; \$10,000; owner builds.

Mo., St. Louis—P. Hardt, 3303 Watson St., erect 3 brick dwellings, 3116-24 Tamm St.; 1 story, 26x45 ft., asphalt shingle roofs, hot air heat; \$12,000; H. Hardt, Archt.-Contr.

Mo., St. Louis—Mrs. Eckert, care Payne Bros., Contrs., 764 Big Bend Blvd., erect \$10,000 residence, Jefferson and Woodlawn Aves., Webster Groves; frame, 1½ stories and basement, 25x28 ft., hardwood floors, tile bath, slate coated shingle roof, hot air heat.

Mo., St. Louis—G. Behrmann, 3200 Arsenal St., erect \$11,000 residence, 2914 Magnolia Ave.; brick, 1 story and basement, 26x53 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; Geo. B. Willmering, Archt., 2616 Kingshighway; E. A. Livingston, Contr., 3515 Hestford St.

Mo., St. Louis—H. Rolfes, 4037 Delor St., erect two \$10,000 duplexes, 4030 Itaska and 4700 Alexander St.; brick, 1 story and basement, 28x56 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; work by sub-contract.

Mo., St. Louis—J. Esser, Jr., 3231 Delor St., erect \$12,000 residence, 3840 Loughborough St.; brick, 2 stories and basement, 25 x41 ft., hardwood floors, comp. shingle roof, tile bath, hot air or hot water heat; work by sub-contract.

Mo., St. Louis—W. D. Aufderheide, 3100 Arsenal St., erect \$18,000 residence, 3864 Federer Place; brick, 2 stories and basement, 38x48 ft., tile bath, hardwood floors, slate roof, hot air or hot water heat; Henry Schaumburg, Archt., 3631 Connecticut St.; A. Paull, Contr., 3663 Botanical Ave.

Mo., St. Louis—Shomac Construction Co., 2112 Pine St., has contract to erect 3 brick dwellings, Pasadena and Beverly Hills; 1½ stories and basement, 26x26 ft., 26x46 ft. and 30x29 ft., hardwood floors, tile baths, conc. and stone foundations, comp. shingle roofs, hot air or hot water heat; \$31,000.

Mo., St. Louis—Chas. H. Hoyle, 5702 Cabanne Ave., erect stone residence, McKnight Rd. near Ladue Rd.; 2 stories and basement, 110x34 ft., hardwood floors, tile and marble work, hot water heat, oil or gas burner; Nolte & Nauman, Archts., 3832 W. Pine Blvd.; F. J. Cornwell, Contr., 111 N. Seventh St.

Mo., St. Louis—G. B. Burkett, 3717 Meramec St., erect \$10,000 brick residence, 5633 Nottingham Ave.; 1 story and basement, 23x45 ft., hardwood floors, tile bath, hot air heat; Adolph Stauder, Archt., South Side Tr. Bldg.; owner builds.

Mo., St. Louis—E. D. Ott, 3024 S. Grand Blvd., erect 2 brick dwellings, 5641-45 Nottingham Ave.; 1 story and basement, 24x42 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; \$10,000; work by sub-contract.

Mo., St. Louis—A. J. Wick & Son, 1461 Sproule Ave., erect 2 brick dwellings, 1444-50 Sprule; 2 stories and basement, and 1 story and basement, hardwood floors, tile baths, asphalt slate shingle roof, hot air heat; \$17,000; owner builds.

Mo., St. Louis—J. R. Hanlon, 7209 Lindell Blvd., erect \$10,000 residence, Northmoor Park; brick, 1½ stories and basement, 31 x33 ft., hardwood floors tile bath, comp. shingle roof, hot air or hot water heat; Gerhard Decker, Archt., 425 Georgia St.; Ferguson; Jos. M. Hacker, Contr., 5209 Lexington Ave.

Mo., Webster Groves, St. Louis—Wm. A. Fries, Jr., 9403 Manchester Rd., erect \$10,000 brick residence, 420 Tuxedo Blvd.; 1 story and residence, 35x35 ft., tile bath, hardwood floors, comp. shingle roof, hot air heat; work by sub-contract.

Okla., Tulsa—G. M. Piggott, 419 N. Rose-dale St., let contract to L. E. Smith, Inc., for \$30,000 residence, 2604 Terwilliger Blvd.; brick veneer, 2 stories, 75x39 ft. 9-19

S. C., Columbia—A. F. Spigner, 1211½ Washington St., erect \$15,000 residence, 400 Hardin St.; brick, 2 stories and basement, wood and conc. floors, tile roof; Lafaye & Lafaye, Archts.; Mechanics Contracting Co., Contr., Carolina Bk. Bldg.; laying foundation.

Tex., Houston — Wm. A. Ryan, Mgr., National Cash Register Co., 515 Caroline St.,

erect Spanish type residence, River Oaks; frame and stucco, 2 stories; Chas. W. Oliver, Archt., River Oaks Bldg.; Vincent Hall Construction Co., Contr.

Tex., Houston—W. L. Edmundson, Second Natl. Bank Bldg., erect 11 dwellings, Oak Cliff, Cragmont, Wilshire, Cumberland and Harriett Sts.; brick veneer, 5 rooms; \$20,000; owner builds.

Tex., Houston—E. D. Shepherd erect Colonial residence, Bayside Terrace; brick veneer, 2 stories, 8 rooms; Chas. S. Chase, Jr., Archt., Post-Dispatch Bldg.; C. C. Rhodes, Contr., 1903 Commonwealth St.

Tex., Houston—Wm. Minto erect French-Colonial type residence, Berry Ave. and Chenevert St.; brick veneer, 2 stories; Chas. S. Chase, Jr., Archt., Post-Dispatch Bldg.; F. Schropshire, Contr.

Tex., San Antonio—H. C. Thorman, Bldr., Real Estate Bldg., plans 35 to 40 dwellings, Olmos district; \$18,000 to \$74,000 each; plans drawn for first 20; \$65,000 dwelling, Trevitt Ave. and Olmos Drive, started.

Tex., Sherman—Dr. D. C. Enloe erect \$10,000 residence, 1307 N. Hopson St.; brick, stucco and half timber, oak floors, tile baths, shingle roof; Clyde & Rolfe, Archts.; J. C. Thompson, Contr.

Va., Martinsville—Martinsville Cotton Mills Co., Inc., started work on 50 employees' dwellings.

Government and State

Okla., Taft—State Bd. of Affairs, Gus C. Wollard, Sec., Oklahoma City, let contract at about \$10,000 to J. P. Wheat, Muskogee, for repairs to colored institution.

Hospitals, Sanitariums, Etc.

Ga., Atlanta—Following sub-contract let on \$650,000 U. S. Veterans Hospital: Plumbing, heating and ventilation, Frank P. Boyd, Columbus, Ind.; elect. work, Southeastern Electric & Engineering Co., First Natl. Bank Bldg., Montgomery, Ala.; refrigerating machinery, York Ice Machinery Corp., Lyric Bldg., Birmingham, Ala., & York, Pa.; refrigerating room and insulation, Armstrong Cork & Insulation Co., Martin Bldg., Birmingham, Ala. and Lancaster Pa.; roofing and sheet metal work, Applewhite & Lawler Co., Citizens & Southern Bldg.; excavating and grading, Wm. J. Redmond, 903 N. Highland Ave., N. E.; linoleum floor covering, Chamberlin Johnson-DuBose Co., 116 Whitehall St., S. W., all Atlanta; Al-gerein Blair, Contr., First Natl. Bk. Bldg., Montgomery. 8-22

Mo., Jefferson Barracks, St. Louis—Following sub-contracts let on N. P. bldg., M. O. C. residence and 2 duplex personnel houses, U. S. Veterans Hospital, total \$236,000: Heating, Eichler Heating Co., Railway Exch. Bldg.; kalamein doors, August Court Co., Ambassador Bldg.; hardware, Shapleigh Hardware Co., Fourth and Washington Sts.; marble and tile, Mid-West Tile Co., Chip-pewa and Gravois Sts.; roofing, Fitzgerald & Roberts Roofing Co., 6625 Delmar Blvd.; brick, Wm. Jones, 5231 Theodosia St.; linoleum, Stlx, Baer & Fuller, Sixth and Washington Sts.; material, Standard Building Material Co., International Life Bldg.; excavating, Frank R. Niemeyer, 2006 Keokuk St.; plastering, Chas. Vienup, 1914 Lucas and Hunt St.; plumbing, Rethwilm-Gartland Plumbing Co., 1916 N. Union Blvd.; sheet metal, Huber & Richardson, 3744 St. Louis Ave.; iron and steel, Lasar Manufacturing Co., Railway Exch. Bldg.; painting, Beal & McNamara Painting Co., 5078 Easton Ave.; millwork, Fox Bros. Manufacturing Co., 2717 Sidney St., and Lecoutour Bros. Stair Manufacturing Co., 3176 Brannon St.; glass, Had-ley-Dean Glass Co., 703 N. 11th St.; cement, Missouri Portland Cement Co., all St. Louis; screens, H. A. Bohn, 814 Baxter St., Louis-ville, Ky.; Wm. MacDonald Construction Co., Contr., Synd. Tr. Bldg., St. Louis. 9-26

N. C., Winston-Salem—Morris-Early & Co., W. Fourth and Poplar Sts., has steel furni-ture contract for \$250,000 Forsyth County Tuberculosis Hospital; Northup & O'Brien Archts., Starbuck Bldg., Winston-Salem; Thos. B. Kidder, Consit. Archt., 155 W. 42nd St., New York; R. K. Stewart & Sons, Contrs., 154 S. Main St., High Point, N. C. 1-24

Okla., Lawton—Kiowa Indian Agency erect \$91,000 addition to hospital; L. R. Carr, Supt. of Constr.; brick, 3 stories; Dr. H. W. Lang-heim, Supt. 7-25

Okla., Tahleah—State Bd. of Affairs, Okla-homa City, let contract at \$91,450 to Bailey Burns Construction Co., Norman, for chil-dren's ward and power house, Eastern Okla-

homa Tuberculosis Sanatorium; heating and plumbing, Fisher & Son, Norman, at \$18,325; Layton, Hicks & Forsyth, Archts., Braniff Bldg., Oklahoma City. 9-19

Tex., Austin—State Bd. of Control, R. B. Walthall, Chmn., let contract at about \$34,600 to J. M. Odum, 1307 West Ave., to re-model and fireproof 3 wards, Austin State Hospital; W. E. Ketchum, Archt., Pope Bldg.

Hotels and Apartments

Ark., Fort Smith — Following additional sub-contracts awarded on \$600,000, 11-story Ward Hotel under construction for Ormond Griffin and associates, St. Louis: The Ashton Glassell Co., Inc., Box 1383, Shreve-port, La., Gen. Contr.; Brick and tile, Acme Brick Co., Greenwood Rd.; struc. steel, Fort Smith Structural Steel Co., 900 Wheeler St.; sand and gravel, Arkola Sand & Gravel Co., 700 S. Blvd.; form lumber, Mansfield Lum-ber Co., 621 Wheeler St., all Fort Smith; rein. steel, Concrete Engineering Co., 2814 Pease St., Houston, Tex.; tile, Industrial Tile Co., 319 S. Kenosha St., Tulsa, Okla.; roof-ing, Rankin Sheet Metal Works, 1953 Samuel St., Shreveport, La.; Marcel Boulicault, Archt., 411 N. Seventh St., St. Louis.

D. C., Washington—Baer & Scholz, Ed-wards Bldg., soon start work on addition to Alban Towers Apartments, Wisconsin Ave. and Garfield St.; owners build.

Fla., Miami Beach—R. G. Wagner, New York and Miami Beach, let contract at \$32,518 to Fred Howland, 1600 N. W. 14th St., Miami, for 3-story apartment, garage and ser-vants' quarters, Pine Tree Drive and 30th St.; Pfeiffer & Bruce, Archts., Biscayne Bk. Bldg., Miami. 9-26

Ga., Atlanta—M. L. Rauschenberg, care Salmon Realty Co., Atlanta Trust Co., erect \$75,000, 3-story, brick veneer, 36-apartment on Collier Road, N. E.; comp. roof, hard-wood floors, tiled baths, steam heat; owner, Archt.-Bldr.

Miss., Macon—Model Hotel let contract to Earl Cline, 1207 N. 17th St., Birmingham, Ala., for \$70,000, 3-story, 26-room annex and remodeling present structure; P. J. Krouse, Archt., M. & W. Bldg., Meridian. 8-1

Mo., St. Louis—Northwestern Terra Cotta Co., 4417 Oleatha St., has contract for terra cotta and Sargent & Co., New Haven, Conn., hardware for \$6,000,000, 28-story Park Plaza Apartment Hotel under construction at Kings Highway Blvd. and Maryland Ave., for Park Plaza Apartment Hotel Co., Sam Koplar, 265 N. Union Blvd.; Laurence O. Schopp and Edwin J. Bauman, Archts., 530 N. Union Blvd. 8-29

Mo., St. Louis—W. Marshall, 4524 Thrush Ave., excavating for \$10,000, 2-story and basement, 24x42 ft., brick apartment, 5011 Queens Ave.; comp. shingle roof, hardwood floors, hot air heat; R. J. Cross, Contr., 4924 Thrush Ave.

Mo., St. Louis—Marquette Construction Co., 5622 St. Louis Ave., excavating for \$11,000, 2-story and basement, 24x46 ft., brick apartment, 4604 Ashland Ave.; comp. roof, hardwood floors, hot water heat; owner, Archt.-Bldr.

Mo., St. Louis—M. F. Ulrich, 5635 Colum-bia Ave., excavating for \$12,000, 2-story and basement, 27x45 ft., brick apartment, 3927 Keokuk St.; comp. roof, hardwood floors, hot air heat; Louis Donati, Contr., 5635 Columbia Ave.

Mo., St. Louis—M. Goldstein, 8th and Chestnut Sts., erect \$35,000, 3-story, 48x64 ft., brick tenement, 4358 Forest Park; comp. roof, steam heat; Swan Supply Co., Bldr., 808 Chestnut St.; McDonald & Condie, Archts., Field Bldg.

Mo., University, St. Louis—Michael Lyons, 6614 Delmar Blvd., excavating for \$15,000, 2-story and basement, 26x46 ft., brick apart-ment, 7117 Tulane Ave.; tile roof, hardwood floors, hot water heat; Geo. B. Willmering, Archt., 2616a N. Kingshighway Blvd.; owner builds.

Okla., Oklahoma City—C. E. Duffner, 137 W. 18th St., started work on \$18,000, 2-story and basement, fireproof, 8-apartment on W. 24th St.; comp. roof.

Tenn., Memphis—Mrs. W. C. Jones, 1214 Central Ave., erect 2-story brick veneer apart-ment, 904 S. Fourth St.; comp. roof, oak floors, tile baths; C. Jones, Contr., Fidelity Bk. Bldg.

Tex., Houston—Boyer Builders have per-mit for \$60,000, 2-story, brick veneer, 18-apartment, 1204-10 Bartlett St.

Tex., San Benito — Benson Construction Co., Chas. Benson, Pres., 228 N. LaSalle St., Chicago, reported, erect apartment.

Miscellaneous

Miss., Jackson—A. F. Daniel, Daniel Bldg., let contract to Tom Scott, Capital Natl. Bank Bldg., for studio building.

Mo., St. Louis—H. L. Weidenmueller, 4249 S. Kingshighway, has permit for \$18,000, 1 and 2-story, 58x53 ft., brick funeral home, 6201-5 Gravois Ave.; comp. roof; Arsenal Watson Co., Contr.; O. J. Popp, Archt., Arcade Bldg. 8-22

S. C., Greer—Victor-Monaghan Co., Greenville, let contract to Cox & Hodgins, Emaxcee Bldg., Greenville, for gymnasium at Victor plant; J. E. Serrine & Co., Engrs., Greenville.

Tenn., Memphis—Crystal Gardens started work on \$15,000, 1-story, stucco night club, Castalia St.; comp. roof, hardwood floors; Dan Kuhlman, Contr., 2013 Courtland St.

Schools

D. C., Washington—District Commrs., 509 Dist. Bldg., let contract at \$173,419 to Hofberberth Construction Co., Spring and Rock Creek Church Road, for Bell School; A. L. Harris, Municipal Archt., Dist. Bldg. 9-5

Ga., Hartwell—Bd. of Education let contract to J. W. Temples & Sons for \$18,000, brick high school; comp. roof.

La., Scott—Lafayette Parish School Bd., Lafayette, let contracts at \$11,820 and \$11,800 to W. M. Day, 2318 Spain St., Baton Rouge, for school auditoriums at Scott and Youngville; Wm. T. Nolan, Archt., Canal Bk. Bldg., New Orleans. 7-18

La., Youngville—See La., Scott.

Md., Colesville—Montgomery County School Comsn., Dr. J. E. Deets, Pres., Clarksburg, let contract to Morris Bros., Bethesda, for \$16,500, 1-story, brick elementary school; H. W. Cutler, Archt., 1800 E St., N. W., Washington, D. C. 8-29

Miss., Belzoni—Belzoni Consolidated School Dist., Humphreys County, T. E. Mortimer, Pres., Bd. of Trustees, let contract at \$43,000 to Dye & Mullings, Columbia, for 1-story, brick, stone trim school; 10 classrooms and auditorium to seat 800 people, cafeteria, music and expression rooms, built-up comp. roof; Shaw & Woleben, Archts., Gulfport. 9-12

Miss., Booneville—Bd. of School Trustees let contract at \$98,884 to Jas. D. Smith, Memphis, Tenn., for 1-story, 255x148-ft., brick, cast stone trim high school; N. W. Overstreet, Archt., Miss. Fire Insurance Bldg., Jackson; electric, P. W. Eleccric Co., W. Pine St., Hallsburg; probably re-advertise for heating and plumbing. 9-26

Miss., Corinth—Alcorn County Bd. of Education, T. J. Dalton, Supt., let contract at \$8950 to W. F. Nichols for 6-classroom and auditorium brick school in Farmington Consolidated School Dist. 9-12

Miss., Hickory Flat—Bd. of Education erect gymnasium; T. S. Wiley, Contr.

Mo., Moberly—Bd. of Education, B. F. Self, Sec., let contract at \$141,400 to Peterson Construction Co., Pioneer Trust Bldg., Kansas City, for 2-story and basement, 165x70 ft. high school and 1-story and basement, 129x93 ft. West Park School; also let contract at \$53,925 to Haley & Wisdom, Moberly, for 1-story and basement, 174x99 ft. East Park School; Ludwig Abt, Archt., Riegel Bldg., Moberly; Walter E. Gillham, Mech. Engr., Interstate Bldg., Kansas City. 9-26

Mo., Schell City—Bd. of Education, G. F. Johnston, Clk., let contract at \$20,397 to Griffith & Keith, Uniontown, Kan., for 1-story and basement, 84x140-ft. brick, cast stone trim high and grade school; Dan R. Sandford, Archt., 112 E. Rose St., Pittsburg, Kan. 9-19

N. C., Durham—Southern Engineering Co. Wilkinson Bldg., Charlotte, has contract for 220 tons struc. steel for group "A" Dormitory, Duke University; Duke Construction Co., Gen. Contr., Charlotte; Horace Trumbauer, Archt., Land Title Bldg., Philadelphia.

N. C., Mineral Springs—Bd. of Education let contract to G. M. Tucker, Monroe, for \$25,000 school.

Tex., San Angelo—Tom Green County Bd. of Education, T. W. Parker, Supt., let contract to John Parker for school in Byrd Dist.

Stores

Ala., Birmingham — Munger Realty Co., Jackson Bldg., let contract to Erice Estes

Building Co., Woodward Bldg., for 2-story, brick and stone store at Five Points; wood floors; Miller & Martin, Archts., Title Guarantee Bldg.

Fla., Miami Beach—Malone Properties, 124 Twenty-third St., let contract to Harrison Construction Co., 500 N. E. 45th St., Miami, for 1-story, 250x40 ft., rein. conc., conc. block and stucco store, 23rd and Collins Ave.; 11 stores, cement and wood floors, comp. roof, tile trim; Weed & Virrick, Archts., 2620 Biscayne Blvd., Miami. 9-12

Fla., Miami—Biscayne Boulevard Co., 1317 Biscayne Blvd., soon start work on \$100,000, 2-story, 150x76 ft., rein. conc. and conc. block store, Biscayne Blvd. and 14th St.; 5 shops on ground floor; Harrison Construction Co., Contr., 500 N. E. 45th St.; Weed & Virrick, Archts., 2620 Biscayne Blvd.

Fla., Miami Beach—Fred Tod, 5197 Collins Ave., erect 1-story, 50x100-ft., rein. conc. and conc. block store, Alton Road and 17th St.; cement and terrazzo floors, tile and comp. roof, cast stone trim; Robert A. Taylor, Archt., Spanish Village; J. C. Gaffney, Contr., 708 Collins Ave.

Fla., Palm Beach—Phillip Liberman, 1431 Broadway, New York, let contract to The Saint John Construction Co., 629 N. W. Seventh St., Miami, for \$85,000, 2-story, store and apartment; rein. conc., tile, stucco, cast stone trim, terrazzo floors, Italian Renaissance type; B. Kingston Hall, Archt., 125 Sixth St., Miami Beach.

Ga., Atlanta—E. P. McBurney, Trust Co. of Georgia Bldg., let contract to W. B. Hiers, 1497 Westwood Ave., for improvements to building, 51-53 Alabama St., S. W.

Ga., Atlanta—George S. Peck, Citizens Sou. Bank Bldg., let contract at \$10,757 to Joe Walker, Ga. Savings Bank Bldg., for addition and improvements to 4-story and basement store and office building on Pryor St. near Decatur St.; J. M. Russell, Archt., McGlawn-Bowen Bldg. 9-19

Ga., Augusta—Jacobson Plastering Corp., Candler Bldg., Atlanta, has contract for lathing and plastering Schulte Store; Willis Irvin, Archt., S. F. C. Bldg.; Branch & Smith, Contrs., 334 Walker St., both Augusta. 8-29

Ga., East Point—Standish Thomas, care R. F. Thompson Realty Co., erect \$10,000, 1-story, brick store; comp. roof; owner builds.

La., New Orleans—J. W. Rellly erect \$10,000 addition to rear building, 1725 Joseph St.; C. N. Bott, Contr.; Armstrong & Koch, Archts., both Audubon Bldg.

Md., Crisfield—Whittington Brothers started work on 2-story brick building, Main St.; 3 storerooms on first floor, apartments above.

Mo., St. Louis—Borbein-Young & Co., Leonard and Washington Sts., erect \$20,000, 1-story, 134x88 ft., brick store, 3218-20 Lucas St.; comp. roof, hot air heat; McKelvey Carter Co., Contr., 3800 W. Pine Blvd.; Manske-Bartling, Archts., 4522 Olive St.

Mo., St. Louis—Stein Fixture Co., 711-13 N. 7th St., erect \$10,000, 3-story, 52x71 ft., brick addition to store, 711-13 N. 7th St.; P. Grossman, Bldr., 5841 Faillt St.

N. C., Asheville—Carolina Steel & Iron Co., S. Elm St., Greensboro, has contract for 120 tons struc. steel for 4-story and basement, 45x106-ft. store under construction for S. Lipinsky & Co., Inc., 34 Haywood St.; L. L. Merchant Construction Co., Gen. Contr., 290 Biltmore Ave.; H. I. Gaines, Archt., Builders Bldg.; Bon Marche Department Store, Lessee. 8-29

N. C., Greensboro—Mangel's, Inc., let contract to Ross-Frankel Contractors, Inc., 402 W. 27th St., New York, for \$10,000, 1-story brick store, 214-16 S. Elm St.; Lorenzo S. Winslow, Archt., American Bank Bldg. 9-26

Tenn., Memphis—First National Bank & Trust Co., P. S. Smithwick, Pres., let contract at \$22,200 to Gilbertson Construction Co., Graham Bldg., for 1-story, 114x71-ft. stone commercial building, Second St. and Madison Ave., to be leased to Fenner & Beane, Cotton Exchange Bldg.; Jones & Furbringer, Archts., Porter Bldg. 9-26

Tex., Dallas — Dorsa & LaMonte started work on 1-story, 72x80-ft., brick store, Thomas Ave. and Leonard St.; Chambers & Stancl, Contrs.; F. J. Woerner & Co., Archts., Central Bank Bldg. 9-19

Va., Harrisonburg — Hugh Morrison, Jr., Mayor of Woodstock, let contract to Harrisonburg Building and Supply Co. for \$15,000, 2-story building on Court Square to be leased to The Vanda 5 and 10 Cent Co., 78 Main St., N.

Theaters

Mo., Joplin—Midland Theater & Realty Co., M. B. Shanberg, Pres., 610 Midland Bldg., Kansas City, erect \$500,000 moving picture theater, Main St., between 4th and 5th Sts.; seat 2300 people; M. E. Gillioz, Contr., Monett; plans by United Studios, Inc., 14 W. Lake Blvd., Chicago.

Tex., Alpine—Work has been started on 55x140-ft. brick and tile theater for O. K. Theater Circuit; E. Mollison, representative, supervising work and will be manager of theater; seating capacity 1000 people.

Warehouses

N. C., Raleigh—Seaboard Air Line Ry. Co., W. D. Faucette, Ch. Engr., 101 E. 34th St., Savannah, Ga., let contract to C. V. York, Odd Fellows Bldg., Raleigh, for \$30,000 warehouse.

Trade Literature

Welding Rods.—Type T metal, a new alloy furnished in the form of welding rod to apply a wear-resistant surface by either the oxy-acetylene or metallic arc welding process, is described in bulletin No. 3 issued by the Fusion Welding Corporation, Chicago. Development of this alloy is said to be the result of investigations by the Research Department of the company into the theory of abrasion. The product is not only extremely hard but is said to possess a ductility which gives it unusual properties.

Close Corporations.—A booklet addressed particularly to officers of close corporations has been issued by the Equitable Trust Company of New York. The publication briefly outlines a well-managed, aggressive and successful corporation with a serious weak spot, presents a remedy for it, recounts important factors to consider in effecting the remedy and describes an actual example of how the remedy was applied. It also offers a general plan applicable to any corporation.

Chattanooga Manufacturers.—A revised edition of a booklet Chattanooga, an Industrial Center of the South, contains a list of Chattanooga manufacturers and their products, compiled by the Chattanooga Chamber of Commerce and distributed by that organization. The directory is published by the Chattanooga Community Advertising Association.

Pole Line Construction.—Number four of a series of six studies in pole line design and construction is being distributed by the American Creosoting Company, Louisville, Ky. This treatise covers the cost of poles, while No. 1 discussed new pole strength, No. 2, maintained strength, and No. 3, pole life.

Roof Insulation.—A special bulletin on cork roof insulation is being distributed by L. Mundet & Son, Inc., New York, describing the Mundet Jointite cork board and presenting a photograph of the big rayon plant at Asheville, N. C., of the American Enka Corporation, on which more than 1,000,000 feet of this product was used.

Rebuilt Motors, Generators.—The Rockford Power Machinery Company, Rockford, Ill., is distributing bulletin No. 36 illustrating and describing Rockford rebuilt motors, generators, compressors, etc. Rockford rebuilt motors are serving in 20 states, and are used by large and small enterprises in Mexico.

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Machinery and Supplies

Boiler.—Clinton Manufacturing Co., Inc. (Lumber Merchants, etc.), Clinton, N. C.—Wants prices and data on 175 or 200-h. p., 150-lb. pressure fire tube boiler, used.

Feed Mill Machinery.—Stratton Grocery Co., Inc., Cheriton, Va.—Wants data and prices on machinery to grind corn meal, crack corn and mix feed.

Furnace.—Martin Forge Co., Inc., 70-S1 Adams St., Brooklyn, N. Y.—Wants prices and data on oil or gas furnace, 12 to 14 ft. long x 2 to 3 ft.

Jaw Crushers.—R. E. Boggs, 1615 Second Ave., South, Birmingham, Ala.—Wants prices and data on 2, 48x60 or larger jaw crushers, for resale, first class condition.

Mining Machinery.—Waldo Forster, 220 Montrose Ave., San Antonio, Tex.—Wants prices and data on complete equipment for working granite deposit.

Peanut Shelling, Grading and Polishing Machine.—Talbert Turner, Effingham, S. C.—Wants prices and data from manufacturer of small machine to shell, grade and polish peanuts for market.

Tobacco Stalk Grinding Machinery.—E. Cundiff, Altavista, Va.—Wants prices and data from manufacturers of machinery for grinding tobacco stalks fine for drilling with fertilizer drill, on commercial scale.

Tractors, Roller, etc.—Embry-Riddle Co., P. O. Box 105, Chesapeake, Ohio—Wants prices and data on tractors, road roller and machinery for maintenance of airport surface.

Water Works.—City of Sweet Springs, Mo., J. J. Smith, Mayor, wants prices on following:

- (1) Hydrants
- (2) Mains and Fittings—c. 1, 2-in. to 8-in.
- (3) Tank and Tower—125 ft. wide base.

Woolen Mill Machinery.—Hughes & Ray, Newland, N. C.—Wants prices and data on machinery for small, woolen mill, especially for manufacturing blankets; good condition; used.

Jaromir J. Soucek, Prague 111, U. Lavky 10, Czechoslovakia, Europe—Wants prices and data on following road machinery:

- (1) Bins
- (2) Concrete Finishers
- (3) Excavating Equipment
- (4) Graders
- (5) Maintainers
- (6) Paving Mixers
- (7) Pressure Distributors
- (8) Stone Spreaders
- (9) Subgraders
- (10) Tractors
- (11) Weighing Devices—for aggregate

Guyan Machine Shops, Inc., Logan, W. Va.—Wants prices and data on following:

- (1) Generator—d. c., 550 volt, direct connected to steam engine, preferably 500 kw.
- (2) Generator (Motor)—150 or 200 kw., 250 volts, 3 phase, 60 cycle, a. c.
- (3) Hoists—for I beams, 250 volts, d. c., 1 or 2 ton capacity
- (4) Japanning Oven—for baking large armatures, natural gas or electric heat
- (5) Lathe—for turning steel tires and steel locomotive wheels up to 40-in. diam. and from 32 to 48-in. gauge
- (6) Loading Boom—about 40 ft. long, for coal tippie
- (7) Motors—a. c. and d. c., 2 to 20 h. p., 220 volts
- (8) Pumps—centrifugal, for coal mine, operated by 220 to 440-volt, 3-phase, 60-cycle motors and 250-volt, d. c. motors
- (9) Punch and Shear—preferably No. 1½ Buffalo Universal Iron Worker
- (10) Transformers—3, 50 kv-a., 60 cycle, 440 to 200 volts
- (11) Welding Machines (Electric)—200 to 300 ampere, gasoline driven.

Miscellaneous

Heating Plants.—Wallace Baptist Church, John E. Lanier, Pastor, Wallace, N. C.—Wants prices and data on heating plants for churches.

Railroad Spikes.—S. Bender Iron & Supply Co., 1200-1208 Marshall St., Shreveport, La.—Wants prices and data on 2 cars of used railroad spikes, 9/16x5½ in., good condition, to be used again.

Steel Stamping.—A. H. Bringham, 2022 N. Greenway Dr., Coral Gables, Miami, Fla.—Wants prices and data from pressed steel manufacturers, making small articles of stamped steel.

Windmills.—Craven Mutual Exchange, Inc., E. F. Lewis, Sec., Court House, New Bern, N. C.—Wants prices and data from manufacturers of windmills for farm water systems; also on windmill outfits.

E. W. Boston, Georgetown, Ky.—Wants prices and data from soft steel iron foundries in position to mold new tobacco press.

Building Material and Equipment

P. P. Ewing, Contr., P. O. Box 766, Edinburg, Tex., wants prices on following for \$15,000 church:

Art and Frosted Glass.
D. R. and L. E. Yates, 415 Lindsay St., Greensboro, N. C., want prices on following for \$10,000 office and store bldg.:

Dental Office Equipment
Drug Store Equipment
Electric Refrigerators
Flooring—tile, composition
Metal Ceilings
Plaster Board
Terra Cotta Trim
Ventilators
Wire Glass.

Gray Concrete Co., Contr., Thomasville, N. C., wants prices on following for \$100,000 hospital:

Cast Stone
Flooring—linoleum, tile, composition
Dumb Waiters
Metal Doors
Roofing—built-up
Steel Sash and Trim
Tile—gypsum, hollow, interior.

John M. Donn, Archt., 1223 Connecticut Ave., Washington, D. C., wants prices on following for store and apartment for Benj. C. Perry, Bethesda, Md.:

Dumb Waiters
Electric Refrigerators
Flooring—hardwood tile
Limestone
Plaster Board

Trout & Trout, Archts., Two Republics Bldg., El Paso, Tex., want prices on following for \$27,000 fire station and drill tower:

Cast Stone
Flooring—linoleum
Roofing—tile
Steel Sash and Trim.

Voelcker & Dixon, Archts., Perkins-Snyder Bldg., Wichita Falls, Tex., want prices on following for \$157,000 courthouse, Paducah, Ky.:

Flooring—linoleum, terrazzo, tile
Incinerator
Marble
Metal Doors
Roofing—built-up
Steel Sash and Trim
Tile—interior
Vaults
Ventilators
Wire Glass

Brass and Bronze Work.

Kelwood Co., Bldr., Travis Bldg., San Antonio, Tex., want prices on following for dwelling:

Cast Stone
Electric Refrigerators
Flooring—hardwood, linoleum, tile
Roofing—tile
Tile—hollow.

Wilson & Tatum, Archts., Palmetto Bldg., Columbia, S. C., want prices on following for \$100,000 hospital:

Cast Stone
Dumb Waiters
Electric Refrigerators
Elevators
Flooring—terrazzo, composition
Incinerator
Metal Doors
Roofing (flat)—built-up
Steel Sash and Trim
Tile—gypsum, hollow
Ventilators.

W. P. Whitledge, 440 Broadway, Cape Girardeau, Mo., wants prices on following for residence:

Roofing—asbestos shingle.

Bids Asked

Boats.—U. S. Engr. Office, Huntington, W. Va.—Bids Nov. 7 for 4 steel maneuver boats.

Bridge.—State of South Carolina. See Construction News—Roads, Streets, Paving.

Bridges.—State of Virginia. Bids for 2 bridges. See Construction News—Roads, Streets, Paving.

Bridge.—Rockville, Md. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—State of Florida. See Construction News—Roads, Streets, Paving.

Bridges.—State of West Virginia. Bids for 3 bridges. See Construction News—Bridges, Culverts, Viaducts.

Cooking Ranges.—U. S. Engr. Office Huntington, W. Va.—Bids Oct. 7 for cooking ranges.

Boilers.—Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids Oct. 9 for furnishing and installing 2 150-h. p., hand-fired, water-tube boilers, including foundations, boiler settings, accessories and connections to existing piping and flue at Naval Home, Philadelphia, Pa.

Breakwater.—Coast Guard depot, Curtis Bay, Baltimore, Md.—See Construction News Columns—Miscellaneous Construction.

Bridges.—State of Maryland. Bids for 2 bridges. See Construction News—Bridges, Culverts, Viaducts.

Bulkhead.—Coast Guard depot, Curtis Bay, Baltimore, Md.—See Construction News Columns—Miscellaneous Construction.

Chlorinators.—Q. M. Supply Officer, Washington, D. C.—Bids Oct. 8 for 2 chlorinators.

Diamond Drill Outfits and Carbons.—Gen. Pur. Officer, Washington, D. C.—Bids Oct. 9 for diamond drill outfits and carbons, Sech. 1906.

Dikes.—Missouri—See Construction News Columns—Miscellaneous Construction.

Fibre Conduit and Fibre Bends.—Bd. of Awards, Office of City Register, City Hall, Baltimore, Md.—Bids Oct. 9 for 3-in. fibre conduit and 3-in. fibre bends for use of Bureau of Mechanical-Electrical Service.

Fire Alarm System.—Q. M. Supply Officer, Washington, D. C.—Bids Oct. 10 for complete fire alarm system at Arlington National Cemetery, Va.

Furniture.—I. Predecki, County Auditor, Galveston, Tex.—Bids Oct. 21 for furniture for Court of Civil Appeals building.

Lamp Cord.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 10 for 40,000 ft. lamp cord, delivery Philadelphia, Pa.

Launch (Gasoline).—U. S. Engr. Office, Poland and Dauphine St., New Orleans, La.—Bids Oct. 26 for constructing and delivering gasoline launch, stock cruiser, inclosed bridge type.

Levee.—Arkansas. See Construction News Columns—Miscellaneous Construction.

Levee.—Memphis, Tenn.—See Construction News Columns—Miscellaneous Construction.

INDUSTRIAL NEWS OF INTEREST

Locomotive.—Comms. Dist. of Columbia, Washington, D. C.—Bids Oct. 7 for gasoline driven locomotive, 30 in. narrow gauge.

Machine Shop Equipment.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Oct. 15 for following: Motor driven jig borer machine, engine lathes, universal turret lathe, pantograph type engraving machines, surfacer and core box machine; bids Oct. 22 for shears and cutters.

Machine Shop Equipment.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Oct. 15 for following: Sheet metal cutter, foot-operated gap shear, milling and die-sinking machine, bench jointers, band and bench saws; bids Oct. 22 for: Engine lathe, tool and cutter grinding machine, precision lathes, cutter, reamer and surface grinders, motor driven, metal cutting hacksaws, vertical turret lathes.

Material for Conversion of Dipper Dredge.—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Nov. 25 for material for conversion of dipper dredge, including following, Sch. 1903:

Hoisting drum, rope guard, pinions, sheaves, supporting member, ball, wire ropes, dipper handle, back braces, saddle block, castings, and drawings.

Muslin (Unbleached).—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 11 for 40,000 yd. unbleached muslin.

Naphthalene.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 8 for furnishing 10,000 lb. naphthalene, delivery Philadelphia, Pa.

Padlocks.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 8 for 5000 padlocks, delivery Philadelphia, Pa.

Paint Spraying Outfit.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 9 for paint spraying outfit, delivery Quantico, Va.

Paint, etc.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 7 for furnishing paint, etc., delivery Philadelphia, Pa.

Radio Supplies.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 8 for radio supplies, delivery Quantico, Va.

Reinforced Concrete Sewers.—See Sewers.

Reinforcing Steel.—See Sewers.

Roads.—State of South Carolina. Bids for 7 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Louisiana. Bids for 8 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Maryland. Bids for 7 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Texas. Bids for 3 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Texas. Bids for 11 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Virginia. Bids for 6 roads. See Construction News—Roads, Streets, Paving.

Sewers.—Comms. of Sewerage, Louisville, Ky.—Bids Oct. 17 for constructing Brook St. sewer extension, Contr. No. 42 and 38th St. sewer, Contr. No. 43; work includes sewers in open trench; following quantities: Contr. No. 42—1486 ft. of 5 ft. sewer rein. conc. sewer with manholes and appurtenances; 1486 ft. earth excavation in open trench; 715 cu. yds. Class A. rein. conc.; 84,000 lbs. rein. steel. Contr. No. 43—1957 ft. of 6 ft. rein. conc. sewer; 522 ft. of 60-in. 506 ft. of 48-in. 1055 ft. of 36-in. cir. rein. sewer; 940 ft. of 30-in. cir. plain conc. sewer; 5000 ft. earth excavation in open trench; 220,000 lbs. rein. steel; Woolsey M. Caye, Technical Engr.

Stockings.—Q. M. Dept., Philadelphia, Pa. Pa.—Bids Oct. 14 for 494,517 prs. cotton and 179,702 prs. woolen stockings.

Street.—Claxton, Ga. See Construction News—Roads, Streets, Paving.

Street.—Gallatin, Tenn. See Construction News—Roads, Streets, Paving.

Tape.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 10 for 3500 lb. tape, delivery Philadelphia, Pa.

Tools.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Oct. 7 for tools, delivery Quantico, Va.

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Acquires Electric Investors, Inc.

Directors of Electric Bond and Share Company, New York, and directors of Electric Investors, Inc., have approved a plan whereby the former company will acquire for stock all assets of the latter on the basis of 8 shares of common stock for each 5 shares of common stock of Electric Investors, Inc. The plan is subject to ratification by the stockholders, the Electric Bond and Share Company voting October 9 and the Electric Investors, Inc., October 11. Holders of preferred stock of Electric Investors, Inc., are to receive preferred stock of Electric Bond and Share Company on a share for share basis, or if they do not elect to make this exchange are to receive in cash \$100 a share and accumulated dividends.

Increased Revenue and Earnings for C. & O.

For the eight months ended August 31, 1929, the Chesapeake and Ohio Railway Company shows gross revenues of \$84,663,324, an increase of \$4,023,488. Operating expenses were \$56,631,430, an increase of \$862,472. Net railway operating income was \$23,981,930, an increase of \$2,626,257. Net income after all charges was \$19,760,388, an increase of \$3,491,136, compared with the corresponding period of 1928. Operating ratio for the period was 66.9 per cent, a decrease of 2.2 per cent, as compared with the same period a year ago.

To Represent Machine Tool Makers.

William J. Leppert and T. H. King, Baltimore, have incorporated under Maryland state laws, the Maryland Machinery Company to represent manufacturers of machine tools and manufacturers of woodworking machinery. On exclusive rights, the company's territory will be limited to Maryland, District of Columbia and portions of Virginia and West Virginia. Mr. King is president of the company and Mr. Leppert, secretary and treasurer.

Memorial to Refrigeration Pioneer.

As a memorial to C. H. Leonard, a pioneer in the development of household refrigeration and founder of the Leonard Refrigerator Company, Grand Rapids, Mich., the Leonard Institute of Food Preservation will be established at Grand Rapids, states A. H. Jaeger, secretary and sales manager of the company. The work of the Institute will be largely in investigations and research in various fields of food preservation, including refrigeration, with a view to cutting down loss sustained through food spoilage.

Doubling Crane Manufacturing Plant.

H. D. Conkey & Company, manufacturers of the Conco overhead traveling cranes and Conco crawler cranes, are building an addition to their plant at Mendota, Ill., which will make possible the doubling of its capacity. The addition will be used for the fabrication of materials only and will be equipped with modern machinery. Conco overhead traveling cranes, in hand power and electric design, are built up to 20 tons capacity.

To Represent Pump Company.

The Pennsylvania Pump and Compressor Company, Easton, Pa., have appointed Joseph W. Eshelman as representative in the Birmingham (Ala.) district, with offices in the American Traders Bank Building.

General Offices to Hopewell.

The Atmospheric Nitrogen Corporation, Syracuse, N. Y., announces the removal of its general offices to Hopewell, Va., where is located the huge plant of the corporation. The general purchasing department also will be located at Hopewell; K. E. Hildreth has been appointed general purchasing agent.

Pipe Couplings.

The A. M. Byers Company, Pittsburgh, Pa., reports, effective immediately, all Byers standard and extra heavy black and galvanized pipe, six inches and under, will be furnished with hand tight couplings. Orders for machine tight couplings will be filled when specified.

Completes Crushing Plant.

The Maddox Foundry & Machine Company, Archer, Fla., recently completed a road-base lime-rock crushing plant near Archer for L. M. Grey, contractor, installing a 60-inch crusher. The plant was designed by and all machinery furnished by the Maddox organization.

Durham Textile Mill Offered.

W. J. Berry, receiver for the Yarbrough Mills, Inc., Durham, N. C., will offer for sale at public auction on the premises October 12 the land, buildings, looms and all other physical equipment of the mills. Terms of sale call for 20 per cent of the purchase price to be paid in cash and the balance to be evidenced by two equal notes secured by a deed of trust.

Air Compressor for Michigan Plant.

The Hardie-Tynes Mfg. Co., Birmingham, Ala., which recently installed air compressors at the Bessemer (Ala.) plant of the Pullman Car and Manufacturing Corporation, has received an order from the Pullman company for a large air compressor to be installed at its plant at Bay City, Mich. In addition to air compressors, the Hardie-Tynes company builds Corliss engines, slide valve engines, marine engines, special machinery, heavy castings and mining hoists.

Cooper Elected President Independent Pneumatic Tool Company.

Directors of the Independent Pneumatic Tool Company, Chicago, have elected Ralph S. Cooper president, to fill the vacancy caused by the death of the late John D. Hurley. Neil C. Hurley was elected a member of the executive committee and Raymond J. Hurley, a director. Mr. Cooper in 1917 was elected vice president in charge of Eastern Sales, being transferred to Chicago in 1918 as vice president and general sales manager.

\$500 Cash Prizes for Slogan.

The Merco Nordstrom Valve Company, 343 Sansome street, San Francisco, manufacturer of lubricated valves, offers \$500 in cash prizes for the best slogans in connection with publicizing their valves, the slogans to be submitted prior to December 31. The first prize is \$250, the second \$100, the third \$50, the next four \$10 each and the next twelve \$5 each. A catalog will be supplied by the company giving full details regarding the valves.

Municipal Refuse Disposal.—A discussion of the production, collection and incineration of refuse of American communities, is presented in a booklet issued by the Morse Boulger Destructor Company, New York. Through a number of illustrations the publication deals with the collection and incineration of community wastes.

Chemical Society Essay Contest.—The committee on prize essays of the American Chemical Society, New York, has distributed more than 15,000 copies of a booklet out-

lining rules for the Garvan essay contest for high school and secondary school students of 1929-1930. Essays must be received at the office of the chairman of the Awards Committee of the State in which the school is located, on or before March 1, 1930.

Road Building Machinery.—A folder distributed by the J. D. Adams Company, Indianapolis, illustrates and describes the Adams line of road building machinery, including adjustable leaning wheel graders, motor graders and maintainers. Southern offices of the company are located in Kansas City, Mo., Memphis, Dallas and Atlanta.

Concrete and Clay Tools.—Two bulletins issued by the Sullivan Machinery Company, Chicago, illustrate and describe improved compressed air concrete breakers and clay spaders. Bulletin 87-A is devoted to M-1 1929 model clay spader. Bulletin 87-B describes the Sullivan K-2 and K-4 "Buster" concrete breakers and Q-1 and Q-2 sheet pile drivers.

Industrial Safety.—Report No. 5, entitled Workmen's Safety Committee, in the Industrial Safety series published by the Policyholders Service Bureau of the Metropolitan Life Insurance Company, New York, is available. The reports are based on studies of accident prevention work undertaken by industrial establishments.

Contractors' Equipment.—Zelnicker in St. Louis has issued a folder illustrating and describing a complete outfit of bridge and railroad contractors' equipment turned over to them for resale. Equipment includes 40-ton locomotive crane, Pullman camp car, 42-foot cook car, compressors, boilers, buckets, tanks, etc.

High Speed Trailers.—The Electric Wheel Company, Quincy, Ill., manufacturers of general haulage equipment, including steel wheels, farm and log trucks, gas engine trucks and special mountings, are distributing trailer bulletin A-462 featuring high speed trailers.

NEW RECORD FOR FREIGHT TRAFFIC

Movement of 280,439,978,000 Net Tons in Seven Months

Washington, D. C.—According to the Bureau of Railway Economics, class 1 railroads moved without car shortage or other difficulty in the first seven months of the year the largest volume of freight ever transported in a like period, the movement amounting to 280,439,978,000 net ton miles, estimated to be 3 per cent more than in the same period in 1927 and 6.6 per cent more than in the same period of 1928. In July freight totaled 41,991,315,000 net ton miles, an increase of 7.2 per cent over July, 1928, and 9.4 per cent over July, 1927. Freight traffic over Eastern railroads increased 8.6 per cent in the first seven months of this year, as compared with the same period in 1928; Western railroads, 5.8 per cent, and Southern railroads 1.2 per cent. Eastern railroads increased their freight traffic 8.3 per cent in July, as compared with the corresponding month last year; Western roads 8.7 per cent, while Southern roads reported a decrease of 1.4 per cent.

International Acetylene Association

The next annual convention of the International Acetylene Association, executive offices 30 East 42nd street, New York, will be held at the Congress Hotel, Chicago, November 13, 14 and 15. This meeting is an outstanding event in the oxy-acetylene field each year, the programs being a distinct contribution, it is said, to the literature of welding. A program committee has made definite arrangements for papers of unusual interest, according to an announcement, but

it is understood that L. F. Loutrel, president of the association, will receive suggestions from members for making the program more complete and more constructive.

Creative Spending

It is no extravagance to spend money largely, but rather it is wasteful to be penurious, declared Charles F. Abbott, executive director of the American Institute of Steel Construction, in an address Tuesday before the National Industrial Advertisers' Association at Cincinnati.

"We are discarding the old economic idea that business is limited," said Mr. Abbott. "We are realizing that an industry full of unequal units, some very modernly tooled and some poorly tooled; some using up-to-date methods and some ancient methods; some practicing unwise principles, need not be accepted with no change possible.

"We know that something can and must be done about it. We must lift up an entire industry toward a higher average in tools, methods and business principles. We are willing to spend money to accomplish it, a great deal of money, individually and collectively. That is courageous and creative spending, the statesmanship of consumption, and genuine progress.

"Short-sighted economy ideas are a drag on trade and industry in need of more executives who have the courage to do things in a big way. Large sums are today spent on consumer advertising, but they will seem small in comparison with what is going to be spent in the future.

"We are doing a greater and better job in advertising than we ever dreamed of doing in the old days. It is costing more money but it is breaking down resistance, promoting bigger things because it is generally creative spending. The technical and industrial field is rapidly coming into the bigger sphere of usefulness, and he is a bold man who can predict where this era will end."

\$70,000,000 BANK MERGER

30-Story Building Planned for New Institution

Oklahoma City, Okla.—With total assets estimated at more than \$70,000,000, the American First National Bank and the Security National Bank, both of this city, will consolidate as the First National Bank & Trust Company, with the following officers: Hugh M. Johnson, chairman of the Board; Charles W. Gunter, vice-chairman of the Board and chairman of the executive committee, and Frank P. Johnson, president. All other officers of the two institutions will be retained as officers of the consolidated bank with the titles they now hold. The First National Bank & Trust Company will have a capital stock of \$5,000,000; surplus of \$1,000,000, and undivided profits of \$2,000,000. Plans are expected to be announced within three weeks for a 30-story bank and office building for the new bank.

Asks Bids for Roads

Columbia, S. C.—Bids will be opened October 8 by the South Carolina Highway Department for the construction of five road projects covering a total of 38.23 miles and for a bridge project. The following work is involved:

Abbeville County—300-foot concrete bridge over Little River between Abbeville and Autreville

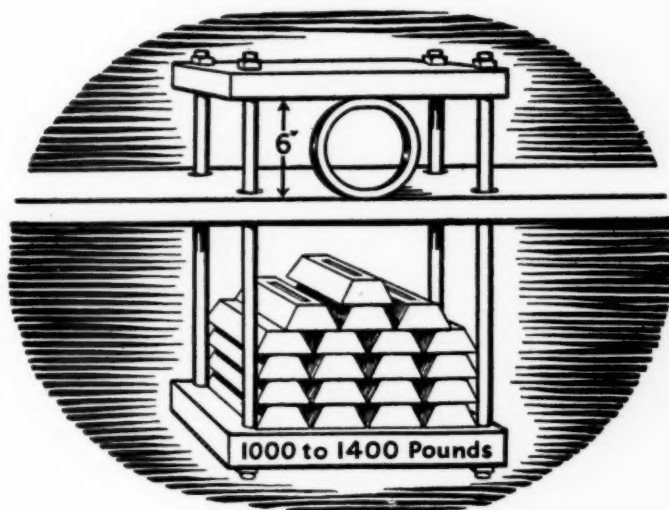
Greenville County—3.564 miles of top soil on route 247 from U. S. route 25 to Saluda River

Lancaster County (two projects)—6.225 miles of concrete from Lancaster to point near Waxhaw Creek; 9.802 miles of concrete from point near Twelve Mile Creek to North Carolina state line

Lexington County—1.649 miles of concrete from point near Cayce to point near New Brookland

Union County—14.993 miles of concrete from Union via Carlisle to Broad River bridge.

A deLavaud pipe section one inch wide will support *a load of from 1000 to 1400 lbs.*



THE remarkable ability of deLavaud Pipe to withstand severe crushing strains was demonstrated in a ring-crushing test. This test was conducted by a recognized authority, whose report reads in part as follows:

"Six rings, two each cut from the bell end, the middle, and spigot end of a length of deLavaud pipe picked at random from the manufacturer's stocks, constituted the test samples. These were cut from the pipe band on a lathe and were one inch wide. These rings were quite elastic and the metal appeared to be of a good smooth even grain. Results showed that the load required to cause failure was from 1000 to 1400 lbs."

The facts about deLavaud's great strength are accepted in

engineering circles everywhere. It has been definitely proved that deLavaud has 25% greater resistance to internal pressure than good pit cast pipe. The above tests demonstrated deLavaud's ability to withstand tremendous *external* crushing strains.

Those who would know the secret of deLavaud's greater strength need look no further than the microstructure of the metal itself. It is even, close grained and free from slag and blow holes. It is made by pouring molten iron into a rapidly revolving cylindrical mould. Centrifugal force holds the metal against the mould, and drives impurities out *with a force 40 times greater than gravity.*

Let us send you the deLavaud handbook and complete facts and figures about deLavaud Pipe.



Cast iron pipe made by this Company bears the "Q-check" trademark of The Cast Iron Pipe Research Association.

United States Pipe and Foundry Co., Burlington, New Jersey

Sales Offices:
New York

Philadelphia
Pittsburgh

Cleveland
Buffalo

Chicago
Dallas

Birmingham
Kansas City

Minneapolis
Seattle

San Francisco
Los Angeles

FINANCIAL NEWS

Bond Issues Proposed

Ala., Mobile—Road, Bridge—Mobile County Bd. of Revenue, S. H. Smith, Clk., Circuit Court, reported, will sell after Dec. 12, \$725,000 bonds.

Ark., Hot Springs—City plans selling sewer bonds; H. S. Moreland, City Engr. 7-25

Ark., Little Rock—City, Pat L. Robinson, Mayor, receives bids Oct. 15 for \$555,000 bonds for municipal airport, fire dept. and hospital; bidders to name interest. 9-26

Fla., Bartow—Refunding—Polk County, Geo. J. McNamee, Clk.-Auditor, receives bids Oct. 11 for \$95,000 6% \$1000 denom. bonds.

Ga., Arlington—Calhoun County, C. B. Weaver, Clk., County Commrs., votes Oct. 9 on \$30,000 courthouse bonds.

Ga., Bowden—City, reported, voted \$35,000 bonds.

Ga., Colquitt—Bd. of Trustees, Enterprise Consolidated School Dist. No. 3, Miller County, P. Z. Geor, County Supt., receives bids Oct. 19 for \$22,000, 5½%, \$500 denom. bonds. 9-19

Ga., Dalton—Valley Point Consolidated School Dist., Whitfield County, defeated \$20,000 bond issue; J. W. Godfrey, Trustee. 9-5

Ga., Tennesse—Tennille School Dist. voted \$350,000 bonds.

Ky., Beaver—Water—City, Anna Y. Diple, Clk., votes Nov. 5 on \$225,000 bonds.

Ky., Bellevue—School—City voted \$110,000 bonds.

La., Columbia—Road—Caldwell Parish Police Jury called election for Oct. 31 on \$145,000 bonds: \$45,000, Road Dist. No. 1; \$100,000, Road Dist. No. 2.

La., Dubach—Water—Town, C. C. Barham, Mayor, receives bids Oct. 22 for \$25,000, not to exceed 6% bonds.

La., Gilbert—Water—City voted bonds for \$25,000 project.

La., Houma—Sewer—City, Dreux Angers, Clk., voted \$193,000 bonds; will advertise, within 60 days, for sale of bonds; Edward Wright, Mayor. 9-5

La., Pontchartroula—Bd. of Commrs. Gravity Drainage Dist. No. 2, Tangipahoa Parish, receives bids Oct. 19 for \$240,000, 5% drainage bonds.

La., St. Joseph—Water—Town, Bd. of Aldermen, Joseph P. Scott, Clk., receives bids Oct. 19 for \$30,000 bonds.

Md., Baltimore—City, A. M. Denhard, Register, receives bids Oct. 10 for \$4,037,000, 4% coupon bonds: \$319,000, Third Conduit Serial 1936-1967 loan; \$572,000, Third School Serial, 1933-1967 loan; \$3,146,000, Third Water Serial, 1933-1967 loan; Wm. F. Broening, Mayor.

Miss., Heidelberg—Heidelberg Special Consolidated School Dist. plans \$50,000 bond election.

Miss., Iuka—Courthouse—Tishomingo County considering \$125,000 bond election.

Miss., Summit—School—City votes Oct. 14 on \$9000 bonds.

Mo., Pacific—Sewer—City votes soon on \$54,000 bonds.

Mo., St. Louis—Public Building and Improvement—City Comm. received no bids for \$6,000,000, 4½% bonds; bids opened Sept. 26. 9-12

Mo., West Plains—Courthouse—Howell County defeated \$125,000 bond issue; G. B. Burgess, Presiding Judge.

N. C., Durham—Harris, Forbes & Co., New York City, offering \$250,000 4¼% City of Durham bonds.

N. C., Shelby—City, L. E. Ligon, Clk., receives bids Oct. 5 for \$98,000, not to exceed 6% bonds: \$40,000, water; \$58,000, school.

Okla., Altus—Altus School Dist. considering \$200,000 bond election; T. M. Robinson, Pres. Bd. of Education.

Okla., Frederick—City plans voting within 60 days on \$35,000 water and sewer bonds. 8-22

Okla., Sand Springs—Bd. of Education, E. F. Dixon, Clk., receives bids Oct. 7 for \$41,000, Sand Springs School Dist. bonds.

Okla., Temple—City considering \$45,000 bond issue for water, city hall, fire equipment, sewage disposal plant.

Okla., Tecumseh—Courthouse—Pottawatomie County votes Oct. 8 on \$180,000 bonds.

Okla., Woodward—City, H. M. Renner, Mgr., receives bids Oct. 10 for \$85,000 bonds: \$25,000, water; \$25,000, sewer; \$25,000, air-

port; \$10,000, improve convention hall. 9-5

S. C., Columbia—Municipal—Harris, Forbes & Co., New York City, offering \$250,000 5% Columbia Township bonds, previously sold.

S. C., Lexington—Lexington School Dist. No. 1, B. J. Wingard, Atty., receives bids Oct. 7 for \$40,000, 6%, 01,000 denom. bonds.

Tex., Amarillo—Water—City, Ernest O. Thompson, Mayor, votes Oct. 26 on \$200,000 bonds.

Tex., Big Spring—City, C. W. Cunningham, Mayor, votes Nov. 12 on \$500,000 bonds: \$125,000, water; \$100,000, sewer disposal plant, sewer extension; \$75,000, paving; \$30,000, fire station; \$20,000, 2 fire sub-stations.

Tex., Big Spring—Road—Howard County Commrs. Court considering \$900,000 bond election; H. B. Debenport, County Judge.

Tex., Brackettville—Water—City, Denver Keeney, Sec.-Treas., receives bids Oct. 14 for \$68,000 5½% refunding bonds. 9-19

Tex., Brownsville—Irrigation—Cameron County Water Improvement Dist. No. 14 plans voting soon on \$1,500,000 bonds.

Tex., Brownsville—Point Isabel-San Benito Navigation Dist., Cameron County, plans issuing \$500,000 bonds for harbor project.

Tex., Brownsville—Irrigation—Cameron County Water Improvement Dist. No. 15, Annie Orr Houghton, Sec., votes Oct. 16 on \$199,000 bonds.

Tex., Donna—Donna Irrigation Dist., Hidalgo County, votes soon on \$1,500,000 bonds.

Tex., Fort Worth—School—School Bd., will call election for October 26 on \$4,000,000 bonds; M. H. Moore, Supt. of Schools.

Tex., Fredericksburg—Road—Gillespie County voted \$360,000 bonds.

Tex., Galveston—Galveston County, E. B. Holman, County Judge, receives bids soon for \$800,000 bonds: \$700,000, road; \$100,000, courthouse, jail. 12-13-1928

Tex., Grapeland—Road—Houston County, Grapeland Dist., voted \$50,000 bonds.

Tex., Groesbeck—Road—Limestone County, Commrs. Precinct No. 3, considering \$1,000,000 bond election.

Tex., Groveton—Groveton Independent School Dist., Trinity County, voted \$34,000 bonds. 9-12

Tex., Haskell—Road—Haskell County voted bonds.

Tex., Lamesa—Road—Dawson County Commrs. considering bond elections.

Tex., Liberty—Road—Liberty County plans voting about first of Nov. on \$2,250,000 bonds. 9-19

Tex., McAllen—City Commrs. will purchase site for airport with warrants; will not call \$30,000 bond election as previously noted; Whit Rogers, Sec., Chamber of Commerce. 9-12

Tex., Midland—Courthouse, Jail—Midland County voted \$150,000 bonds. 9-5

Tex., Mount Pleasant—City Council considering bond election to retire outstanding warrants, and issuing bonds to complete improvements.

Tex., Port Arthur—City, C. R. Moore, Finance Commr. votes latter part of Oct. or early in Nov. on \$1,000,000 improvement bonds; including \$100,000 for water and sewer facilities.

Tex., Stinnett—Road—Hutchinson County, H. M. Hood, County Judge, voted \$150,000 bonds. 9-5

Tex., Texarkana—City votes Oct. 15 on \$225,000, 5% school bonds.

Tex., Throckmorton—City voted \$50,000 bonds: \$22,000 water; \$28,000, to refund existing warrant indebtedness.

Tenn., Tiptonville—Water—City, A. E. Markham, Mayor, receives bids Oct. 7 for \$25,000, 6% bonds.

Va., Charlottesville—Sewer—City votes soon on \$225,000 bonds.

Va., Danville—Street—City Council considering \$120,000 to \$140,000 bond issue; C. L. Scott, City Engr.

Va., Hopewell—City, E. Louise Strickland, Clk., rejected bids on \$750,000 street, school, fire dept. and sewer bonds: receives bids Oct. 8 on \$350,000, 5½% bonds. 8-15

W. Va., McMechen—Union Dist. Marshall County votes Nov. 5 on \$150,000 bonds for addition to Benwood School, and erection of schools in South McMechen and Sherrard; J. D. Marshall, Pres., School Bd., Benwood. 9-26

W. Va., Middlebourne—Road—Tyler County, Ellsworth Road Dist., plans \$98,000 bond election.

W. Va., Spencer—Road—Roane County, Harper Road Dist., votes Oct. 25 on \$62,500 bonds.

Bond Issues Sold

Ark., Jonesboro—Paving—Merchants & Planters Trust Co., Pine Bluff, purchased bonds for paving Dist. 31.

Ga., Nahunta—Courthouse—Brantley County Commrs. of Roads and Revenues, Jos. B. Strickland, Sec., sold \$35,000, 5% bonds to J. C. Buie, Burnt Fork. 8-29

La., Many—Road, Bridge—Sabine Parish Police Jury, J. M. Abingdon, Sec., sold \$15,000 6% \$500 and \$250 denom. Road Dist. No. 12 bonds to F. P. Clark, Alexandria, at par, accrued interest and \$25 premium. 8-29

Md., Brunswick—Street—City, C. A. Orison, Mayor, sold \$10,000, \$1,000 denom. bonds to Poffenberger & Mause, Myersville, \$10,075. 9-12

Miss., Hattiesburg—Sewer—City, W. S. F. Tatum, Mayor, sold \$150,000 5½% bonds to Hibernia Securities Co., New Orleans, par, accrued interest and \$903 premium. 8-15

N. C., Asheville—Buncombe County Commrs. sold \$1,833,000 bonds at \$1189 premium to Wm. R. Compton Co., St. Louis; Bankers Securities Corp., Durham, and associates; \$225,000, 6% road and bridge funding; \$405,000, 6% school funding; \$682,000, 6% funding; \$521,000, 5%, refunding.

N. C., Winston-Salem—Forsyth County sold \$30,000, 6% notes to Farmers National Bank & Trust Co., Winston-Salem.

Tenn., Carthage—Water—City sold \$32,000 bonds to Caldwell & Co., Nashville, \$260 premium.

Tenn., Jonesboro—Water—City sold \$170,000, 5½% bonds to Caldwell & Co., Nashville, par plus banking arrangement giving city \$6,500 additional. 7-11

Tenn., Memphis—City, D. C. Miller, Clk., sold \$865,000 5% general improvement bonds to Commerce Securities Co., Union Planters Bank, and associates for par, accrued interest and \$5450 premium; Continental Illinois Co., Inc., Chicago, Harris, Forbes & Co., New York, and Mercantile Commerce Co., St. Louis, offering bonds. 8-29

Tenn., Nashville—City, S. H. McKay, Clk., sold \$745,000 5 and 5½% bonds to Continental Illinois Co., and Harris Trust & Savings Bank, both Chicago, at 100.10: \$390,000, street; \$355,000, general improvement. 9-12

Tenn., Paris—Highway—Henry County, D. T. Spaulding, County Judge, sold \$60,000, 6%, bonds to Saunders & Thomas, Memphis.

Tex., Hallettsville—Road—White-Phillips Co., Davenport, purchased Lavaca County Road Dist. No. 1 bonds, at 94.50.

Va., Boydton—Water, Sewer—Town, Irby Turnbull, Mayor, sold \$50,000, 6%, \$1,000 denom. bonds to J. B. McCrary Co., Atlanta, Ga., par and accrued interest. 9-19

Building and Loan Associations

Md., Baltimore—Capitol Mutual Building & Loan Assn., Inc., 17 E. Saratoga St., capital, \$10,000,000, chartered; August W. Schnepfe, Edward J. Leonard.

New Financial Corporations

Ala., Montgomery—Paramount Finance Corp., capital \$80,000, chartered; James M. Holt, 2½ Court Square.

Fla., Avon Park—Barnett National Bank of Avon Park, capital \$50,000, plans organizing; Wm. R. McQuaid, Barnett National Bank, Jacksonville, correspondent.

Fla., Cocoa—Barnett National Bank of Cocoa, chartered; William R. McQuaid, Barnett National Bank Bldg., Jacksonville.

Fla., DeLand—Barnett National Bank of DeLand, capital \$100,000, chartered; Wm. R. McQuaid, Pres., Barnett National Bank, Jacksonville.

Md., Baltimore—Bankers Arbitrage Corp., Hearst Tower Bldg., chartered; Walter I. Wells, E. Reuben Lipman.

Md., Baltimore—National Corporation, 101 E. Fayette St., capital \$500,000, chartered; Marie J. Minnaugh, Maugerite I. Brown, both Brooklyn, N. Y.; Helen M. Bader, Baldwin, Long Island, N. Y.; deal in securities.

(Continued on page 106)



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FINANCIAL NEWS

(Continued from page 102)

Mo., Kansas City—Investment & Trading Co., capital \$150,000, chartered; H. L. Gary, 1431 Telephone Bldg.

N. C., Charlotte—Schulter, Green & Co., capital \$200,000, chartered; P. E. Schultzer, New York; N. E. and F. B. Green, Johnston Bldg., Charlotte; deal in securities.

Tenn., Columbia—J. L. Hutton, Liquidating Agt. of Columbia Bank & Trust Co., planning organizing bank with \$200,000 capital.

Tex., Converse—Air Corps National Bank of Converse, capital \$25,000, chartered; J. E. Brinkmeyer, Sam Houston State Bank & Trust Co., San Antonio, correspondent.

W. Va., Charleston—Blue and Gray Secur-

ties Corporation, capital \$500,000, chartered; A.M. Hill, South Side.

W. Va., Wheeling—Sonneborn Corporation of Wheeling, capital \$400,000; H. M. Sonneborn, Laurel Ave., Lenox Addition; deal in stocks, bonds.

American-First National Bank, Frank P. Johnson, Pres., and Security National Bank, Charles W. Gunter, Pres., both Oklahoma City, Okla., merged as First National Bank & Trust Co. with \$5,000,000 capital; Frank P. Johnson, Pres.; Hugh M. Johnson, Chmn. of Bd.; Charles W. Gunter, Chmn. of Executive Committee.

Baltimore Trust Co., Donald Symington,

Pres., Baltimore, Md., will open branch office at Gay and Mott Sts., Baltimore.

Citizens National Bank, E. R. Dyer, Pres., and Peoples Bank, Lee J. Sandridge, Pres., both Philippi, W. Va., plan merging as Citizens National Bank, with about \$2,000,000 resources.

Murchison National Bank, J. V. Grainger, Pres., Wilmington, N. C.; Citizens National Bank, W. S. Ryland, Pres., Raleigh; American National Bank & Trust Co., R. G. Vaughn, Pres., Atlantic Bank & Trust Co., J. W. Cone, Pres., both Greensboro; First National Bank, F. F. Fagan, Pres., Rocky Mount Savings & Trust Co., F. P. Spruill, Pres., both Rocky Mount, will merge Sept. 30 as North Carolina Bank and Trust Co., with total resources over \$40,000,000. Lately noted stockholders approved plans for merger. 9-5

GEORGIA PLANS \$8,000,000 ROAD WORK

Initial Contracts to be Awarded in December

Atlanta, Ga.—The Georgia Highway Department plans to resume road building operations by letting initial contracts early in December, according to Colonel Sam Tate, chairman of the road board. Contracts have been delayed, it is said, to await the testing of the new law authorizing the Governor to hypothecate highway warrants to the extent of \$2,000,000 to meet the board's needs. The \$2,000,000 anticipated from the Governor's loan would be used to match a like amount of federal aid funds, to which the state is entitled under government apportionments, it is said, these plans applying only to federal aid projects. It is anticipated that a test case will have been concluded within 30 days, after which the first contracts are expected to be awarded. The board will then continue to award contracts until \$8,000,000 of awards have been made, the entire program to include state aid and other projects in addition to federal aid roads.

To Sell \$555,000 Bonds

Little Rock, Ark.—At a conference between Mayor Robinson and the finance committee of city council, it was decided to sell \$555,000 city bonds before October 15. Of the total, \$300,000 will be used to purchase new equipment for the Fire Department and erect two fire stations; \$200,000 to purchase site and develop airport, and \$55,000 to erect an annex for negroes and isolation ward to General Hospital.

Baltimore Offers Bonds

Proposals will be opened by the City Register, Baltimore, at his office in the City Hall, October 10 for the purchase of \$4,037,000 4 per cent coupon bonds of the City of Baltimore, and at the same

hour the Commissioners of Finance will open the bids, for the whole or a part of the following issues: \$319,000 Third Conduit Serial 4 per cent 1933-1967 loan; \$572,000 Third School serial 4 per cent 1933-1967 loan, and \$3,146,000 Third Water serial 4 per cent 1933-1967 loan.

\$3,000,000 FOR WATER WORKS AT ST. PETERSBURG

To Supply 10,000,000 Gallons Daily—Project Involves 30-Mile Water Line

Citizens of St. Petersburg, Fla., have voted to ratify a 30-year contract with the Layne-Southeastern Company, Norfolk, Va., to supply the city with a minimum of 10,000,000 gallons of soft water daily from the Cosme-Odesa Lake area, water to be available within 12 months. The contract provides for the delivery of water at the city limits. It will involve the construction of a 36-inch pipe line from the Cosme Lake area to St. Petersburg, a distance of approximately 30 miles and bids will be requested as soon as specifications may be issued on steel pipe, concrete pipe and cast iron pipe. Plans and specifications are being prepared by Malcolm Pirnie, consulting engineer of New York City, and general contract will be handled by the J. B. McCrary Company, Atlanta, Ga., working in conjunction with the Layne-Southeastern Company. In addition to the water line, other construction will include aeration and collection basins and well drilling, the last named to be done by the Layne-Southeastern Company, which will also supply pumps. All authority for the purchase of materials and construction has been vested in the contractors and engineers. The project is estimated to cost \$3,000,000.

Bids will be opened October 7 by the Manatee County Board of Commissioners, Bradenton, Fla., for the purchase of \$170,000 6 per cent county building refunding bonds.

FINANCIERS TOUR SOUTHWEST

Party of 200 from All Parts of Country See Industrial Possibilities As

Guests of Henry L.

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For the purpose of obtaining first-hand information and personal impressions of the Southwest a group of some 200 investment brokers, executives and securities salesmen last week made a tour of leading centers of the section as the guests of Henry L. Doherty & Co., New York, and subsidiaries. The group traveled in a special train consisting of 17 Pullmans, dining cars, etc. Firms in New York, Chicago, Cleveland, Boston, San Francisco, Los Angeles, Denver, Washington and other cities were represented. The itinerary provided for an inspection of some of the larger operating subsidiaries of the Cities Service Company. The party was directed by R. C. Russum, general manager of the securities department of Henry L. Doherty & Co.

Numerous important power plants were inspected, both steam and hydro-electric, and natural gas pumping stations and similar projects operated by Cities Service subsidiaries. In addition, in each important city visited, trips were arranged so that the representatives of the financial interests could see for themselves the advantages offered by the section for investment. The visitors were thus able to study local resources, inspect conditions in the various cities and towns and consider the opportunities and advantages for industrial expansion. Cities visited made the most of the opportunity to make known their resources and advantages, the abundant supply of raw materials of the section, excellent climatic conditions, plentiful supply of efficient labor, adequate transportation facilities afforded by railroads, highways, waterways, and airways and in particular to emphasize the willingness of the local citizenship to encourage industrial development through civic support, proper legislation, fair taxes.

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advantages, power resources, intelligent labor, favorable environments.

Every week we publish a lengthy list of enterprises announced—new plants to be erected, enlargements of or improvements to existing plants, new building and construction work of all kinds; public improvements, including roads, streets, water works, sewerage systems, flood control and collateral work; power plants, land drainage and reclamation; financial institutions, bonds being voted and sold—in fact, every kind of public and private activity is systematically covered.

These activities are enlarging the markets of the South for trade among its own people and for the machinery, materials, supplies, products and services of manufacturers elsewhere.

Advertisers in the Manufacturers Record are able to reach through one medium those who conceive and organize new enterprises, as well as those charged with bringing them into actual being and who conduct them when completed, and it is this complete covering of its field that has made it possible for this paper to serve satisfactorily and in a business producing way the many important firms in the country who regularly use its advertising pages.

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PROPOSALS

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Notice of Sale of \$1,000,000 Bonds of Florida Inland Navigation District, Florida

Jacksonville, Fla.

Sealed proposals will be received by the undersigned Board of Commissioners of the Florida Inland Navigation District, State of Florida, at or before 11 o'clock A. M. on Tuesday, October 15, A. D. 1929, at City Commission Chamber, City Hall, Jacksonville, Duval County, Florida, for the following bonds of said Florida Inland Navigation District, a special taxing district composed of Duval, St. Johns, Flagler, Volusia, Brevard, Indian River, St. Lucie, Martin, Palm Beach, Broward and Dade Counties, in the State of Florida:

Seven Hundred Fifty Thousand Dollars (\$750,000.00) "Canal Purchase Bonds," dated September 1, A. D. 1928, due Fifty Thousand Dollars (\$50,000.00) each year 1934-1948, both inclusive. Interest payable semi-annually on September 1st and March 1st each year at four per cent per annum. Denomination \$1000.00 each.

Two Hundred Fifty Thousand (\$250,000.00) Dollars "right-of-way purchase bonds," dated September 1, A. D. 1928, due Seventeen Thousand (\$17,000.00) Dollars each year 1934-1948, both inclusive, and Sixteen Thousand (\$16,000.00) Dollars each year 1944-1948, both inclusive. Interest payable semi-annually on September 1st and March 1st each year at 4% per annum. Denomination One Thousand (\$1000.00) Dollars each. Bids on this issue will be received on all or any portion of the total amount of Two Hundred Fifty Thousand (\$250,000.00) Dollars of these bonds.

Bids will be received upon each of these issues separately and upon the two issues together.

Both of said issues of bonds have been validated by decree of the Circuit Court of Volusia County, Florida, and subsequently affirmed by the Supreme Court of Florida. Also these bonds were validated by Senate Bill No. 138, Legislature of State of Florida, Session 1929.

Delivery of these bonds to be made at Florida National Bank, Jacksonville, Florida.

Both principal and interest on said bonds payable at Florida National Bank, Jacksonville, Florida, or at Guaranty Trust Company of New York City, N. Y., at the option of the holder thereof.

The Board of Commissioners reserves the right to require any or all of the successful bidders to immediately file with its proposal when accepted cash or certified check upon an Incorporated Bank or Trust Company in the State of Florida, payable to the order of Frank H. Owen, Esq., Treasurer of Board of Commissioners, Florida Inland Navigation District, for one per centum of the par value of the bonds bid for. The cash or check of the successful bidder to be retained by the Commission as security for the completion of the contract of sale by the purchaser.

These bonds to be sold subject to the approving opinion of Messrs. Thomson, Wood & Hoffman of New York City, N. Y., to be furnished by the Commissioners. The right to reject any and all bids is hereby reserved.

It is requested that no bids be made except on the form provided by the Board of Commissioners, which form will be supplied by the undersigned upon request.

For further information address Frank H. Owen, Esq., 1701 Barnett National Bank Building, Jacksonville, Florida, Treasurer, or Alfred A. Green, Daytona Beach, Florida, attorney for the Commission.

CHARLES P. BURGMAN,
Chairman Board of Commissioners,
Daytona Beach, Florida.

Bids close November 5, 1929.

Concrete Highways

Postponement of Opening Bids: Previously advertised to be opened October 1, 1929.

Baton Rouge, La.

Notice is hereby given by the Louisiana Highway Commission, Louisiana National Bank Building, Baton Rouge, Louisiana, that the date for receiving bids for construction of the projects listed below has been postponed from 11 A. M. October 1, 1929, to

11 A. M. Tuesday, November 5, 1929.
PROJECT 5251, MANY-FLORIEN HIGHWAY, Sabine Parish, Route No. 42. Length 8.1 miles. Concrete Pavement.

PROJECT NO. 1151, OBERLIN-KINDER HIGHWAY, Allen Parish, Route No. 24. Length 7.0 miles. Concrete Pavement.

PROJECT NO. 2350, HOMER-MINDEN HIGHWAY, Claiborne Parish, Route No. 11. Length 7.0 miles. Concrete Pavement.

PROJECT NO. 4502, CHEF MENTEUR-RIGOLETS HIGHWAY, Orleans Parish, Route No. 2. Length 8.5 miles. Concrete Pavement.)

PROJECT NO. 6100, RIGOLETS-SLIDELL-EAST PEARL RIVER HIGHWAY, St. Tammany Parish, Route No. 2. Length 18.8 miles. Concrete Pavement.

PROJECT NO. 3950, TROUT-JENA HIGHWAY, LaSalle Parish, Routes 6 and 19. Length 4.5 miles. Concrete Pavement.

HARRY B. HENDERLITE,
State Highway Engineer.
O. K. ALLEN, Chairman,
Louisiana Highway Commission.

Bids close October 25, 1929.

State Highway Construction

Nashville, Tenn.

Sealed bids will be received by the State of Tennessee, Department of Highways and Public Works, at their offices in the Memorial Building, Nashville, at 10 A. M. Friday, October 25, 1929, and opened publicly at that hour, for the construction of the following projects:

PROJECT NO. 220-C, DICKSON COUNTY—The construction of a creosoted timber overhead and approaches over the N. C. & St. L. Railway near Dickson on 0.248 miles of State Highway No. 1.

PROJECT NO. 331-E, WEAKLEY COUNTY—The grading and drainage of 7.121 miles of State Highway No. 89 between Palmersville and the Kentucky State Line. Ten timber bridges over twenty-foot span will be let separately.

PROJECT NO. 508-H, HICKMAN COUNTY—The grading and drainage of 0.390 miles of State Highway No. 100 between a point south of Centerville and Project No. 508-C. Bids for three bridges over 20-foot span will be received separately.

PROJECT NO. 523-C, WILLIAMSON COUNTY—The grading and drainage of 11.949 miles of State Highway No. 11 between Triune and the Marshall County Line. Ten bridges over twenty-foot span will be included with the roadway contract.

PROJECT NO. 523-D, WILLIAMSON COUNTY—The grading and drainage of 8.467 miles of State Highway No. 11 between Triune and the Davidson County Line. Five bridges over twenty-foot span will be included with the roadway contract.

PROJECT NO. 525-B, MARION COUNTY—The construction of two steel and concrete Deck Girder Bridges and approaches over Sequatchie River on 0.644 miles of State Highway No. 2 between Jasper and Hales Bar.

PROJECT NO. 525-C, MARION COUNTY—The grading and drainage of 12.351 miles of State Highway No. 2 between Hales Bar and the Hamilton County Line. One bridge over twenty-foot span will be included with the roadway contract.

PROJECT NO. 526-B, McMINN COUNTY—The grading and drainage of 3.817 miles of State Highway No. 39 between the Polk County Line and Etowah. Four bridges over twenty-foot span will be included with the roadway contract.

PROJECT NO. 529-A, RHEA-CUMBERLAND COUNTIES—The grading and drainage of 8.342 miles of State Highway No. 68 between Grand View and Grassy Cove.

Four bridges over twenty-foot span will be included with the roadway contract.

PROJECT NO. 535-A, CAMPBELL-CLAIBOURNE COUNTIES—The grading and drainage of 7.665 miles of State Highway No. 90 between Anthras and the Kentucky State Line. Four bridges over twenty-foot span will be included with the roadway contract.

Bidder's bond on the form furnished with the proposal from a surety acceptable to this Department, or certified check, made payable to this Department, in the amount of not less than five per cent (5%) of the total bid must accompany the bid as evidence of good faith and as guarantee that, if awarded the contract, the bidder will execute and give bond as required.

Totals of bids will be read at opening of bids, but award of contracts will be based upon low bids as computed from unit prices.

Plans are furnished at cost, with no refund. Standard Specifications are furnished at a charge of \$1.00, with no refund. Proposals are furnished free of charge.

The right to reject any or all bids is reserved.

R. H. BAKER,
Commissioner.

Bids close October 15, 1929.

Highway Construction

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building six sections of State Highway as follows:

Anne Arundel County, Cont. AA-76—One section of State Highway from near Bartgis' Store on the Defense Highway to Davidsonville, a distance of 6.0 miles. (Gravel.)

Baltimore City, Cont. BC-84—One section of State Highway along Gwynn Oak Avenue from the City Line to Liberty Heights Avenue, a distance of 0.91 mile. (Sheet Asphalt.)

Charles County, Cont. Ch-68—One section of State Highway from the State Road near Faulkner toward Pope's Creek, a distance of 2.0 miles. (Gravel.)

Prince George's County, Cont. P-102—One section of State Highway from Hunt's Corner on the Oxen Hill-Piscataway Road toward Gordon's Corner on the Camp Springs Road, a distance of 1.5 miles. (Penetration Macadam.)

Montgomery County, Cont. M-119—One section of State Highway along the Darnestown-Seneca Road from the end of Cont. M-99 to Seneca Creek, a distance of 0.5 mile. (Concrete.)

Montgomery County, Cont. M-138—One section of State Highway from the Laytonsville Road toward Goshen, a distance of 1.0 mile. (Concrete.)

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets, Baltimore, Maryland, until 12 M. on the 15th day of October, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 30th day of September, 1929.

G. CLINTON UHL, Chairman.
L. H. STEUART, Secretary.

Bids close October 15, 1929.

BridgeDEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION**NOTICE TO CONTRACTORS**

Baltimore, Md.

SEALED PROPOSALS for building a bridge as follows:
Montgomery County, Contract No. M-137—Single 10-ft. 0-in. span reinforced concrete slab bridge on Bradley Boulevard near the Baltimore and Ohio Railroad underpass.

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets, Baltimore, Maryland, until 12 M. on the 15th day of October, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 27th day of September, 1929.

G. CLINTON UHL, Chairman.
L. H. STEUART, Secretary.

Bids close October 28, 1929.

Roads and BridgeOFFICE OF THE STATE ROAD
DEPARTMENT

Tallahassee, Florida, Sept. 28, 1929.

Sealed bids will be received at this office until 10 A. M. on the 28th day of October, 1929, for the construction of the following projects:

F. A. Project No. 62-C, Road No. 24, Osceola County from St. Cloud to Holopaw, a distance of approximately 12.09 miles. Work to consist of constructing a Florida Lime Rock Base and Surface Treating same.

F. A. Project No. 63-A, Road No. 4, Palm Beach County from Delray to the Broward County Line, a distance of approximately 9.21 miles. Work to consist of constructing a Plain Cement Concrete Pavement.

F. A. Project No. 70, Road No. 5, Charlotte County, being a bridge across Peace River at Charlotte Harbor, consisting of 2449 lineal feet of Hydraulic Embankment, 125-32 feet Clear Span Concrete Deck Girders, providing a 27-foot Roadway and one 5-foot Sidewalk on 24-inch Square Precast Concrete Piling, and one 75-foot Clear Channel Double Leaf Bascule Span. Total length of Project is 6814 feet, including Embankments.

Project No. 870, Road No. 143, Palm Beach County from Belle Glade to Pahokee, a distance of 10.88 miles. Work to consist of clearing, grubbing, grading, salvaging a portion of the present Rock Base, and adding sufficient (shipped) new rock to complete a Rock Base Surface and applying a Sand Surface Treatment.

Project No. 706-A, Road No. 28, Putnam County, from Keystone Heights to Florahome, a distance of approximately 12.53 miles. Work to consist of constructing of a Florida Lime Rock Base and Surface Treating same.

All work to be done in accordance with Plans and Specifications of the State Road Department.

Each bid must be accompanied by a certified check, made payable to the Chairman of the State Road Department, in the amount of 5% of the total bid. The checks of the three (3) lowest bidders will be deposited by the Department.

Proposals for this work may be obtained upon application to this office. Plans may be purchased for the sum of \$5.00 for each set.

The right is reserved to reject any or all bids.

ROBERT W. BENTLEY,
Chairman.

B. M. DUNCAN,
State Highway Engineer.

Bids close October 10, 1929.

BridgesDEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION**NOTICE TO CONTRACTORS**

Baltimore, Md.

SEALED PROPOSALS for building bridges as follows:

Cecil County, Cont. Ce-56—Substructure for a single span steel girder bridge over the P. B. & W. R. R. north of Charlestown, known as (Heisler's Bridge).

Howard County, Cont. Ho-59—Single span 26-ft. 0-in. reinforced concrete arch bridge on the Frederick Pike between Ellicott City and West Friendship over the Little Patuxent River.

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets, Baltimore, Maryland, until 12 M. on the 10th day of October, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 23rd day of September, 1929.

G. CLINTON UHL, Chairman.
L. H. STEUART, Secretary.

Bids close October 8, 1929.

Highway ConstructionDEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION**NOTICE TO CONTRACTORS**

Baltimore, Md.

SEALED PROPOSALS for building seven sections of State Highway as follows:

Anne Arundel County, Cont. AA-36—One section of State Highway along the Shadyside Road from the end of Cont. AA-33 toward Shadyside, a distance of 2.0 miles. (Gravel.)

Anne Arundel County, Cont. AA-72—One section of State Highway from Mt. Zion toward Bayard, a distance of 3.0 miles. (Gravel.)

Baltimore County, Cont. B-126—One section of State Highway along the Black Rock Road from Cooper's Corner on the Falls Road toward Mt. Zion, a distance of 1.5 miles. (Concrete.)

Baltimore and Howard Counties, Cont. Ho-70—One section of State Highway along the Baltimore-Washington Blvd. at designated points between Baltimore and Laurel, a distance of 1.5 miles. (Comb. Concrete Curb and Gutter and Concrete Shoulders.)

Frederick County, Cont. F-128—One section of State Highway along the Rocky Ridge Road from the end of Cont. F-100 to the Monocacy River, a distance of 1.4 miles. (Concrete.)

Montgomery County, Cont. M-129—One section of State Highway along the west side of Wisconsin Ave. from Edgemoor Road to Bradley Lane, and the east side of Connecticut Avenue at the car barn at Chevy Chase Lake, a total distance of 0.6 mile. (Macadam Resurfacing.)

Montgomery County, Cont. M-131—One section of State Highway along the east side of Connecticut Avenue from Woodbine Avenue toward Chevy Chase Lake, and Leland Street connection from Maple Avenue to Cont. N-104, and along Leland Street from Wisconsin Avenue to Bradley Lane, a total distance of 1.1 miles. (Concrete.)

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets, Baltimore, Maryland, until 12 M. on the 8th day of October, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank pro-

posal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 23rd day of September, 1929.

G. CLINTON UHL, Chairman.
L. H. STEUART, Secretary.

Bids close October 14, 1929.

**Bids on West Bank Intercepting
Sewer From South Dallas
Pumping Station to
Denley Street**

Dallas, Texas.

Sealed bids will be received in the office of the undersigned until 10 A. M. October 14th, 1929, for the construction of six thousand seven hundred (6700) lineal feet of sixty-inch sewer, and approximately nine thousand one hundred (9,100) lineal feet of forty-eight inch sewer, in accordance with plans and specifications heretofore adopted on the 13th day of September, 1929, and on file in the office of the City Secretary, copies of which may be obtained from the City Engineer upon making a deposit of \$25.00, which sum will be refunded to those returning plans and specifications in good condition on or before the hour of opening the bids.

Each proposal must be accompanied by a Cashier's Check on any State or National bank in the City of Dallas for the sum of five per cent (5%) of the minimum total bid, payable unconditionally to the Mayor of the City of Dallas, this amount to be forfeited in case the successful bidder within ten days after the receipt of notice of acceptance shall fail to execute the contract, or to give bond with satisfactory sureties in the sum of bid price, conditioned on the satisfactory completion of the contract.

The city reserves the right to reject any or all bids.

Envelopes must be marked "BIDS ON WEST BANK INTERCEPTING SEWER."
EARL GOFORTH,
City Secretary.

Bids close October 14, 1929.

**Bids on Relocation and Extra
Reinforcing of Sewage Force
Mains Under the East Levee,
New River Channel and
Corinth Street Viaduct**

Dallas, Texas.

Sealed bids will be received in the office of the undersigned until 10 A. M. October 14th, 1929, for the construction of approximately 2400 lineal feet of 36-inch concrete force mains in accordance with plans and specifications heretofore adopted on the 13th day of September, 1929, and on file in the office of the City Secretary, copies of which may be obtained from the City Engineer by making a deposit of \$15.00, which sum will be refunded to those returning plans and specifications in good condition on or before the hour of opening the bids.

Each proposal must be accompanied by a Cashier's Check on any State or National Bank in the City of Dallas for the sum of five per cent (5%) of the minimum total bid, payable unconditionally to the Mayor of the City of Dallas, this amount to be forfeited in case the successful bidder within ten days after the receipt of notice of acceptance shall fail to execute the contract, or to give bond with satisfactory sureties in the sum of the bid price, conditioned on the satisfactory completion of the contract.

The city reserves the right to reject any or all bids.

Envelopes must be marked "BIDS ON RELOCATION AND EXTRA REINFORCING OF SEWAGE FORCE MAINS UNDER THE EAST LEVEE, NEW RIVER CHANNEL AND CORINTH STREET VIADUCT."
EARL GOFORTH,
City Secretary.

Bids close October 15, 1929.

Virginia Highway Work

DEPARTMENT OF HIGHWAYS

Richmond, Virginia.

The Commission will receive bids on:

Project	Length	Type
F226	2.7 Mi.	Bit. Mac., Concrete and Alternates
F356CDEGB	4 Mi.	Conc.
S480EF	6.7 Mi.	Gravel.
F556E	2.9 Mi.	Soil
S593EFB2	1.4 Mi.	Macadam
F597A	7.4 Mi.	Gr. and Dr.

Details obtainable on request.

Bids close October 7, 1929.

Reinforced Concrete Sewer

Columbus, Georgia.

Sealed bids will be received by the City Manager of Columbus, Georgia, until ten o'clock A. M. October 7, 1929, for constructing a triple box reinforced concrete sewer in Tenth Avenue, from Tenth Street to Eighth Street, at which time said bids will be publicly opened in the Commission Chamber, said city.

The quantities are approximately:

Excavation	9,762 cubic yards
Backfill	9,762 cubic yards
Concrete	3,687 cubic yards
Reinforcing steel	291,682 pounds
Brick paving	3,608 square yards
Brick masonry	91 cubic yards

Each bid must be made out on the standard form furnished by the city and must be accompanied by a bidder's bond or certified check, payable to the City of Columbus, Georgia, for \$10,000.00, as a guarantee that the bidder, if contract is awarded to him, will enter into the contract and furnish the bond for faithful performance of same, as required by law, the said bond to be equal in amount to the total contract price.

Plans and specifications for this work may be examined at the office of the City Engineer of Columbus, Ga., in the Court House, said city, or a copy of same may be secured from said City Engineer for \$5.00.

The city reserves the right to reject any or all bids.

The complete text of the legal advertisement inviting bids on this work is published in the Columbus Daily Ledger, September 12, 16, 23 and 30, 1929.

H. B. CRAWFORD,
City Manager.

Bids close October 8, 1929.

Sewers And Appurtenances

Federalsburg, Md., Sept. 20, 1929.

Sealed bids or proposals will be received by the Mayor and Council of Federalsburg, Municipal Building, Federalsburg, Maryland, until 7.30 P. M. Tuesday, October 8, 1929, at which time and place they will be publicly opened and read, for the construction of sanitary sewers and appurtenances. All pipe and materials to be furnished by the contractor. The approximate principal items involved are as follows:

3200 Lin. Ft.	10-inch Sanitary Sewer.
3800 Lin. Ft.	8-inch Sanitary Sewer.
2500 Lin. Ft.	6-inch Sanitary Sewer.
22	Manholes.

Plans and specifications may be obtained at the office of the Consulting Engineer, Salisbury, Maryland, or from the City Clerk, Federalsburg, Maryland. A charge of \$10.00 will be made for a complete set of plans and specifications, \$5.00 of which amount will be refunded upon the return of same intact by October 21, 1929.

Bids submitted must be accompanied by a certified check for \$500.00.

The Mayor and Council reserve the right to reject any and all bids.

FRANCIS H. DRYDEN,
Consulting Engineer.

T. H. CHAMBERS,
Mayor.

Bids close October 21, 1929.

Sale Electric Utilities

Radford, Va.

Sealed proposals will be received for the electric utilities of the City of Radford by the council.

The City of Radford invites bids for its electric utilities, with a franchise for thirty years governing the same.

Proposals must be filed with Mr. W. H. Painter, Mayor, Radford, Virginia, on or before October 21st, 1929, at 7.30 P. M. and will be opened by council in the council chamber in the Court House of the City of Radford at 7.30 P. M. of that date.

The property will be sold for cash only, and no bid will be considered for less than six hundred thousand dollars. Certified check, payable to the Treasurer, City of Radford, for ten per cent of the amount of the bid shall accompany each proposal.

Council reserves the right to reject any

and all bids, but proposes to submit the best offer to the freehold voters of the City of Radford for ratification or rejection.

Checks of unsuccessful bidders will be returned immediately and the one of the successful bidder will be retained to await the result of the election. Costs of the election to be borne by the successful bidder.

Full information to be had upon application to W. H. Painter, Mayor, Radford, Virginia.

W. H. PAINTER, Mayor.

Bids close October 9, 1929.

School BuildingPUBLIC IMPROVEMENT COMMISSION
BUREAU OF CONSTRUCTION

Baltimore, Md., Sept. 18th, 1929.

PROPOSALS will be received by the Board of Awards of Baltimore City for furnishing all labor and materials necessary to erect complete the GLENMOUNT SCHOOL, located on Glenmount Avenue near Belair Road, Baltimore, Maryland, for the Mayor and City Council of Baltimore, Maryland.

BIDS must be executed in duplicate and enclosed in sealed envelope, addressed to the Board of Awards of Baltimore City and marked on the outside:

"PROPOSALS FOR THE GLENMOUNT SCHOOL," and left with the City Register, Mr. A. M. Denhard, at his office in the City Hall, on or before 11 A. M. Wednesday, October 9th, 1929.

EACH BID must be accompanied by a certified check of the bidder, drawn on some clearing-house bank in the amount of Fifteen Thousand Dollars (\$15,000.00), made payable to the Mayor and City Council of Baltimore.

The successful bidder will be required to give bond and to comply with the City Charter respecting contracts.

Drawings and specifications may be secured at the office of the Supervising Engineer of the Public Improvement Commission, 324 City Hall, on and after September 20th, 1929, on deposit of certified check for \$100.00, made payable to the Mayor and City Council of Baltimore.

The Board reserves the right to reject any or all bids.

Approved:

H. J. LEIMBACH,
Supervising Engineer.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

FOR SALE—Oil Production in West Virginia and Kentucky; all proven leases. Also fine Fluorspar and the best asphalt property in Kentucky.

E. D. WATKINS, Irvine, Ky.

FOR SALE, LANDS

Timber, coal vein and stripping, copper, kaolin, talc asbestos, marble, mica, acid wood, oil and gas.

EDGAR B. SHAFFER, Mineral Bluff, Ga.

BENTONITE, FULLER'S EARTH, BAUXITE, JUG and POTTERY CLAYS, FIRE CLAY, BRICK and TILE CLAYS and GLASS SAND

are to be found in the territory served by the Gulf, Mobile & Northern Railroad. Through this section of Mississippi will run the new \$35,000,000 natural gas line which is being constructed from the Monroe and Richland natural gas fields of Louisiana.

White and colored labor; water and high tension power line available.

Tax abatement on new industries for five years.

Opportunity for new operations under very favorable conditions.

For full facts and information write HENRY MACE PAYNE, Geologist, Gulf, Mobile and Northern R. R., 841 Munsey Building, Washington, D. C.

Rates, Terms and Conditions

RATES: 30 cents a line each insertion. Minimum space accepted, four lines. In estimating the cost allow six or seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made.

Rates for Special Contract:

100 lines	28c a line
300 lines	26c a line
500 lines or more	25c a line

TERMS: For transient advertising cash with order; check, postoffice or express money order or stamps accepted. On special contract advertising, bills are rendered monthly, covering space used each month, payable within ten days.

CONDITIONS: No patent medicine, oil or mining stock advertisements or questionable or undesirable advertisements will be accepted. The assistance of our readers in excluding undesirable advertisements is requested. No display type used.

MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

FOR SALE—482 acres virgin timber, mineral, coal and fine farming land, will cut over 1,500,000 feet Pine and Hardwood timber. Sihelnik Bros., R. 3, Nauvoo, Ala.

MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

LAND BARGAINS—I can sell you prospective Oil, Gas, Coal and Asphalt land, located in Eastern Oklahoma, \$3 to \$5 per acre; easy terms.

JASPER N. BUTLER, Poteau, Oklahoma.

320 ACRES IRON ORE in North Georgia. Analysis, price and terms on request. We specialize in grove and farm properties, also exchange of property.

P. JOHN HART REALTY & INVESTMENT CORP., Fort Myers, Fla.

FOR SALE—Several tracts of mineral rights. Have one tract of 16,000 acres, another of 715 acres, which have been coredrilled and open pitted. Our geological report gives 240,000,000 tons of Rock Asphalt on the large tract and 4,000,000 tons on the small tract. For complete data address

W. P. HARLEY, Bowling Green, Ky.

COAL LANDS AND MINES

FOR SALE—IN PERRY COUNTY, KY. 709 acres of coal land with good titles. Tipple sidetrack houses and other equipment. There are four seams of coal on this property from 32 to 52 inches in thickness; cutting and hauling motors, mine cars, several tons of steel, electric drills and lots of other tools; \$60.00 per acre and all equipment thrown in. For full particulars write

J. W. HEVNER, Waynesburg, Ky.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

48,000 ACRES, WESTERN FLORIDA—Adaptable to cultivation of Tung Oil Nuts or sheep and cattle; all-year grazing; 10,000 acres fenced; considerable timber. Address No. 8006, care of Manufacturers Record.

MAGNIFICENT IMPROVED RIVER FRONT

Large, spreading live oak trees; high elevation; electricity and long distance telephone available; hard road to all parts of state on St. Johns River, opposite proposed ship canal across state; within town limits; adjoins new Colonial Inn. Apply by mail or on premises.

CHAS. F. FOWLER, Welaka, Fla.

FOR SALE—Fifty-two acres five miles north of Orlando, Fla.; three miles from Winter Park; one mile from Maitland Post-office; 800 feet lake frontage, from 10 to 35 feet elevation. Southern exposure; beautiful natural setting for country estate. Twelve acres on lake front, dotted with palms, live oaks, camphor and pine trees. No undergrowth; balance suited to citrus culture or agricultural development. Perfect title; no incumbrance. Lake fronting this property is connected with two other lakes. Fine boating; good fishing. Price \$15,000.00. W. L. DAVIS, Owner, P. O. Box 303, Orlando, Fla.

WATERFRONT ACREAGE FOR CITY PROPERTY

15 acres on Main State Road (Coastal Highway), within 20 miles of Jacksonville. About 800 feet creek frontage. Price \$4500.

RANCH OR GAME PRESERVE

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